FOR
HALLIE TOWN LANDFILL
CHIPPEWA FALLS, WISCONSIN
U.S. EPA ID: WID981095920
SS ID: NONE
TDD: F05-8905-015
PAN: FWI0149SA

APRIL 25, 1990



ecology and environment, inc.

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FOR
SCREENING SITE INSPECTION REPORT
FOR

HALLIE TOWN LANDFILL CHIPPEWA FALLS, WISCONSIN U.S. EPA ID: WID981095920

SS ID: NONE TDD: F05-8905-015 PAN: FWI0149SA

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Hallie Town Landfill (HTL) site under contract number 68-01-7347.

The site was initially discovered by the Wisconsin Department of Natural Resources (WDNR) on August 24, 1984, when a former employee of Control Data informed WDNR that approximately 100 gallons of volatile organic waste had been disposed of in the landfill sometime prior to 1972 by Control Data (WDNR 1984). The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Vanessa Eigenbrodt of WDNR. The PA is dated September 23, 1985.

FIT prepared an SSI work plan for the HTL site under technical directive document (TDD) F05-8706-067, issued on June 5, 1987. The SSI work plan was approved by U.S. EPA on May 11, 1989. The SSI of the HTL site was conducted on May 23, 1989, under TDD F05-8905-015, issued on May 11, 1989.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of seven soil samples and five residential well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined

preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority' will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from SSI work plan preparation and the site representative interview.

2.2 SITE DESCRIPTION

The HTL site is an inactive sanitary landfill located on a 6.6-acre parcel of land on Shaffer Road in western Hallie Township, approximately 1/4 mile east of the Chippewa River, in Chippewa County, Wisconsin (SW1/4NW1/4 sec. 23, T.28N., R.9W.) (see Figure 2-1 for site location).

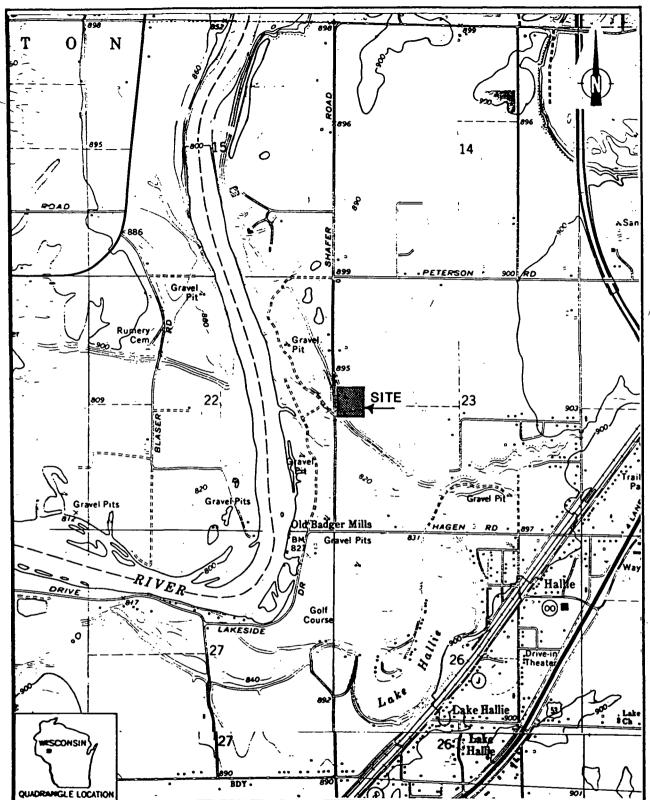
A 4-mile radius map of the HTL site is provided in Appendix A.

2.3 SITE HISTORY

The HTL site is currently owned by Hallie Township and has been owned by the township since at least 1953 (Meier 1989). The site was used as a sanitary landfill by the township from approximately 1953 until the fall of 1978. Approximately 4 of the 6.6 acres were landfilled during this period of time (Meier 1989).

The landfill was officially closed in 1981. The township is not currently using the property for any operations. Ownership and operation of the property prior to 1953 are not known (Meier 1989).

During the years of the landfill's operation, 5 of the 6.6 acres were licensed as a landfill under WDNR license number 1772 (WDNR 1972a). The site was licensed from October 1971 to the fall of 1978 (WDNR 1972a, 1980). The license for the HTL site allowed the deposition of waste from Hallie Township only, which could have possibly included waste from



SOURCE: Ecology and Environment, Inc. 1990; BASE MAPS: USGS, Chippewa Falls, Wi Quadrangle, 7.5 Minute Series, 1972; Eau Claire East, Wi Quadrangle, 7.5 Minute Series, 1972.



FIGURE 2-1 SITE LOCATION

small industries in the area. The license further stipulated that the wastes which were allowed would include demolition wastes, municipal garbage, trash, and brush. Pesticides, acids, caustics, flammables, explosives, pathological or similar wastes, and hazardous wastes were not to be deposited. Open burning on-site was allowed only with prior permission from WDNR (WDNR 1972b). The landfill was open to the public on Wednesday and Saturday, and the waste was to be compacted and covered each day that the landfill was open (WDNR 1972a, 1972b). The township's last application for renewal of the license was in April 1978 (WDNR 1978).

Due to current practices at the time of landfilling operations at the HTL site, used tires may have also been allowed to be deposited.

Five WDNR-licensed collection and transportation agencies were listed as transporters on the landfill license application submitted by Hallie Township for the HTL site. The agencies included American Disposal, Dresels [sic] Garbage Service, Mewhorter Disposal, Mikes [sic] Garbage Service, and Sanitary Disposal, Inc. (WDNR 1978). The quantity of waste deposited by each transporter and the total quantity of waste deposited during the period of landfilling is not known (Meier 1989).

In 1971, at the beginning of the period of the HTL site's operation as a licensed landfill, the WDNR performed three compliance inspections at the HTL site. The inspections occurred on May 28, August 24, and November 30 of that year. As a result of the first of these inspections, WDNR requested that a number of operational improvements be made at the site, improvements which were to be satisfactorily completed within 60 days. The improvements included the posting of the license number at the site, the control of rodents and insects at the site, discontinuation of the practice of open burning at the site, and instituting the practice of compacting and covering the refuse. All of the above improvements were satisfactorily completed within 60 days (WDNR 1972b). The only subsequent action taken by WDNR during the period of the HTL site's operation was the issuance of a recommendation that an unknown number of tires that had been deposited on-site be covered. The date of this recommendation is not known (Meier 1989).

On May 15, 1980, nearly two years after Hallie Township ceased disposal of waste at the HTL site, an inspection of the site was made by

WDNR. The inspection determined that the landfill had not been covered with topsoil and seeded. The landfill could not be officially closed until these operations were completed. WDNR sent a letter to the township chairman on May 16, 1980, stating that the site was required to be completely covered and seeded by September 15, 1980. A follow-up inspection on September 24, 1980, determined that the actions had not been completed as requested (WDNR 1981a).

A letter dated September 29, 1980, was sent to Hallie Township stating that WDNR was recommending that a department order be issued to the township. The order would request that all areas of the landfill be properly graded and sloped and that all areas be covered with 2 feet of soil, followed by 6 inches of topsoil, all actions to be completed by May 31, 1981. Additionally, all filled areas were to be seeded with some type of vegetation by June 15, 1981, and the site was to be fenced to limit access to the site (WDNR 1980, 1981b).

On April 3, 1981, WDNR sent a proposed special order relating to the operations of the site. The order was based upon the finding that the site did not meet minimum WDNR solid waste standards. WDNR stated that it intended to issue the order requiring that the previously stipulated closing actions be taken (WDNR 1981b).

On June 2, 1981, WDNR inspected the site and found it to be properly closed and abandoned, as the area had been covered, graded, and seeded, and the site was fenced. Following this inspection, WDNR recommended that the special order not be issued, because all requirements of the proposed order had been satisfied (State of Wisconsin 1981).

In August 1984, a former employee of Control Data informed WDNR that Control Data had allegedly deposited at least 100 gallons of volatile organic chemicals (VOCs), including 1,1,1-trichloroethane and trichloroethylene, at the HTL site. It is possible that this material was dumped with municipal waste in the landfill for as long as the period of 1962 to 1972. WDNR recommended that private wells near the site be sampled for VOCs, and that monitoring wells be installed at the site (WDNR 1984). The analysis of private residential well samples collected in the vicinity of the site by WDNR did not detect any VOCs. As of the time of the SSI, no monitoring wells had been installed. A groundwater problem does exist southwest of the site, but this is

believed to be caused by a private industry in Eau Claire, Wisconsin (Meier 1989; Johnson 1989).

The HTL site is a known location for gatherings of local teenagers. A fire broke out on-site in 1987 as the result of one of these gatherings. The fire, however, did not result in any damage to the site (McEathron 1989). Because the fence installed in 1981 no longer surrounds the site completely, such unauthorized access is readily achieved.

According to federal, state, and local records, no additional enforcement actions have been initiated against the township concerning its operation of the HTL site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the HTL site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the HTL site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Ted Nehrkorn, FIT team leader, and Regina Bayer, FIT team member, conducted an interview with Hallie Township officials on May 23, 1989. The officials present at the interview were David Meier, Hallie Township Chairman; Dennis Johnson, of Owen Ayres and Associates, Inc., the township's Environmental Consultant; and Dick McEathron, Hallie Township Road Superintendent. The interview took place at Hallie Township Town Hall. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the HTL site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines.

The reconnaissance inspection began on May 23, 1989, at 11:10 a.m. Johnson and McEathron accompanied FIT during the reconnaissance inspection. The reconnaissance inspection included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection.

Reconnaissance Inspection Observations. The HTL site is located in a rural area on the western edge of Hallie Township. This area is composed of agricultural land and many small residential subdivisions that are scattered throughout the area (see Figure 3-1 for site features). The general terrain of the area slopes to the west-southwest toward the Chippewa River, approximately 1/4 mile west of the site (United States Geological Survey [USGS] 1972).

The site is roughly L-shaped, with one axis oriented northnorthwest, and the other, longer, axis oriented east-west. The site is bounded on the west by Shaffer Road and by wooded areas along the southern boundary and the northern and northeastern boundaries. A tree line parallels Shaffer Road along the western boundary. Agricultural areas border the site on the north and east.

Fencing 3 feet high exists along the northern and northeastern boundaries, with barbed wire fencing extending across the entrance for a distance of approximately 12 feet along the site's western boundary on Shaffer Road. An old fence line was observed along the entire southern border of the site and along the southeast corner of the site. There was no indication of any fence line along the unfenced portion of the western border.

The site is covered with grass and is relatively flat. The site slopes along the western and southern borders. The slope increases from north to south along the western border, with the steepest slopes being approximately 40% to nearly a sheer drop-off at the southwest corner of the site. The slope also increases from east to west along the southern border, with the steepest slope being approximately 30%. The steepest slopes on-site were observed on the south end of the west border. A

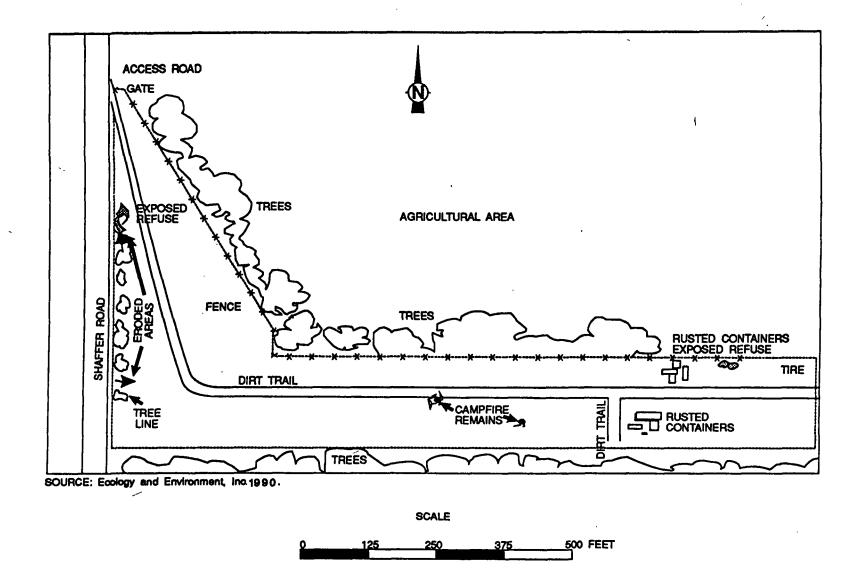


FIGURE 3-1 SITE FEATURES

number of eroded areas were observed along the western border, indicating a potential overland flow pathway leading off-site. Exposed refuse was observed near one of the eroded areas.

An unpaved access road enters the site at the northwest corner, from Shaffer Road, and runs through the center of the landfill, running south-southwest. The road then dwindles to an unpaved trail that runs east to the eastern boundary of the site. Another dirt trail joins this trail, leading from the wooded area off-site along the southern border. Exposed refuse was observed near the area where the second trail enters the site. The trails, especially along the southern border of the site, are used as walking paths by local residents. A woman was observed along one of the trails during the SSI.

The remains of two apparently recent campfires were observed near the trail in the south-central portion of the site. Empty beer bottles were also observed in this area, indicating that this area may be used frequently for unauthorized gatherings. Township officials are aware of this use of the site (McEathron 1989).

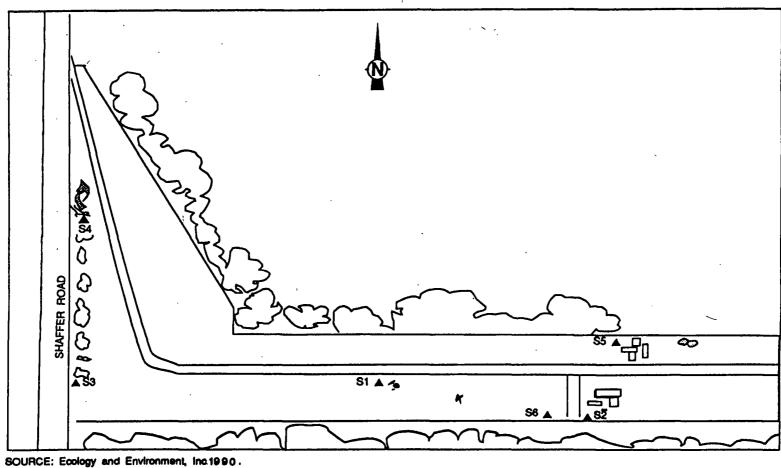
Exposed rusted containers were observed at the eastern end of the site, along the southern and northern border lines. An exposed rubber tire and some small bales of barbed wire were also observed along the northern border in this region.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine levels of U.S. EPA Target Compound List (TCL) compounds and U.S. EPA Target Analyte List (TAL) analytes present at the site. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

On May 23, 1989, FIT collected six soil samples and one potential background soil sample. Portions of the samples were offered to site representatives, but the offer was declined. On May 24, 1989, FIT collected samples from five residential wells.

Soil Sampling Procedures. Soil sample SI was collected from an area near the remains of a campfire in the south-central portion of the site near the trail (see Figure 3-2 for on-site soil sampling locations). Soil sample S2 was collected from an area near some exposed



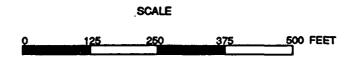


FIGURE 3-2 ON-SITE SOIL SAMPLING LOCATIONS

refuse approximately 10 feet east of where the dirt trail enters the site from the off-site wooded area bordering the site on the south. Soil sample S3 was collected from an eroded area on the western boundary, in the southwest corner of the site.

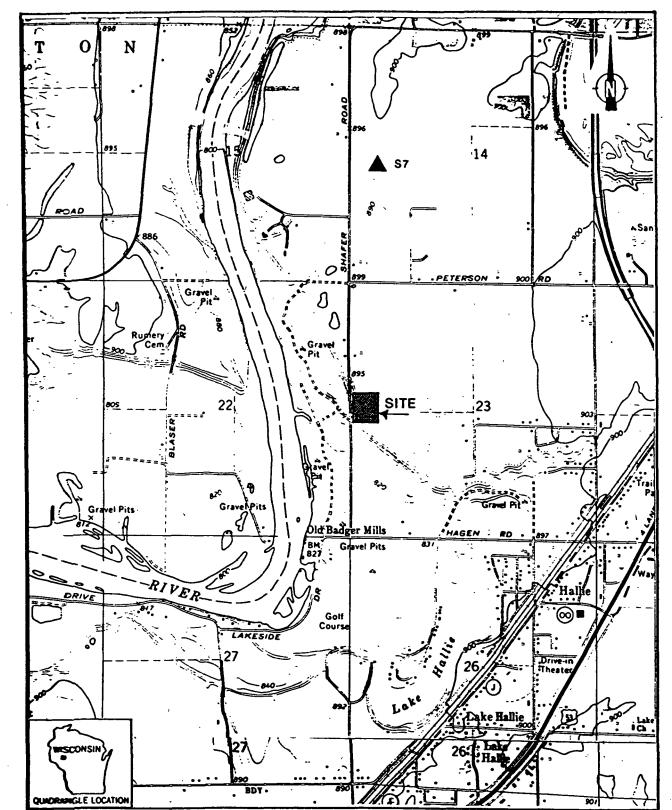
Soil sample S4 was collected from an eroded area on the western boundary of the site near some exposed refuse. Soil sample S5 was collected from a location near the eastern end of the site, along the northern fence line. Soil sample S6 was collected from a location near the eastern end of the site, along the southern border approximately 10 feet west of the area where the trail from the wooded area off-site enters the site. Soil sample S7, a potential background sample, was collected from a wooded area approximately 1 mile north of the site (see Figure 3-3 for off-site soil sampling location).

All soil samples with the exception of sample S5 were grab samples collected at the ground surface. The samples were collected at a depth of approximately 6 inches using a hand trowel and placed in sample bottles. Soil sample S5 was a grab sample collected from a depth of approximately 4 feet, using a hand auger to attain the desired depth. After the completion of the boring, a sample was obtained using the bucket auger and was transferred to sample bottles using a hand trowel.

Soil sampling locations S1 through S6 were chosen to determine whether TCL compounds or TAL analytes were present at the site. Soil sampling location S7 was chosen because it appeared to be a relatively undisturbed area. The sample was collected to determine the representative chemical content of the soil in the area surrounding the site (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The procedures included the scrubbing of all equipment (e.g., trowels and the bucket auger) with a solution of Alconox detergent and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. BPA, all soil samples were analyzed for TCL compounds under the U.S. BPA Contract Laboratory Program (CLP) by



SOURCE: Ecology and Environment, Inc. 1990; BASE MAPS: USGS, Chippewa Falta, WI Quadrangle, 7.5 Minute Series, 1972; Eau Claire East, WI Quadrangle, 7.5 Minute Series, 1972.



FIGURE 3-3 OFF-SITE SOIL SAMPLING LOCATION

Environmental Monitoring and Services of Camarillo, California, and for TAL analytes by Allied Analytical Research, of Carrollton, Texas.

Residential Well Sampling Procedures. Residential well samples (indicated as RW1, RW2, RW3, RW4, and RW5) were collected to determine whether TCL compounds or TAL analytes had migrated from the site to groundwater in the vicinity of the site.

The residential well sampling locations were chosen because of their proximity to the site (see Figure 3-4 for residential well sampling locations).

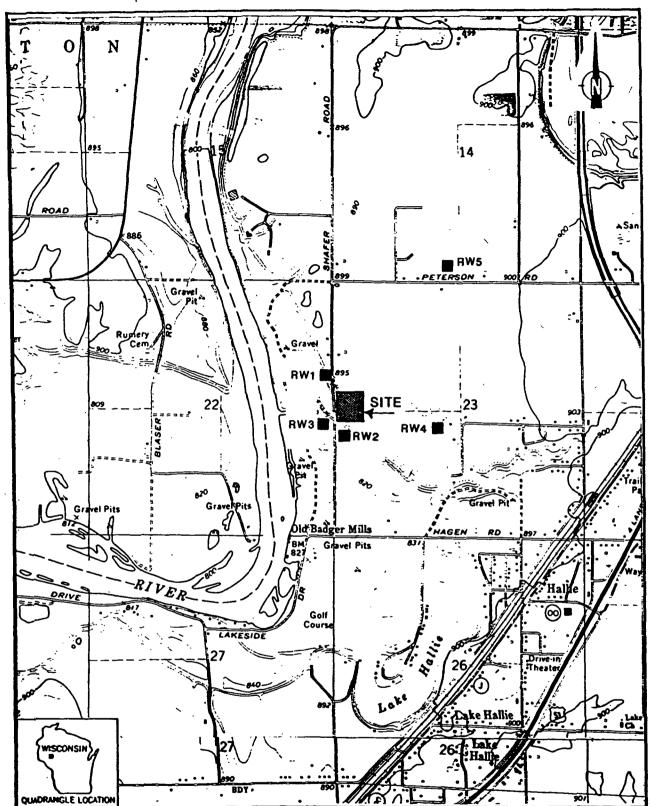
Sample RW1 was collected from a residence approximately Non-responsive northwest of the site. Sample RW2 was collected from a residence approximately Non-responsive of the site. Sample RW3 was collected from a residence approximately Non-responsive of the site. Sample RW4 was collected from a residence approximately Non-responsive of the site. Sample RW5 was collected from a residence approximately Non-responsive northeast of the site. A duplicate residential well sample was collected and a field blank was prepared in accordance with U.S. EPA quality assurance/quality control requirements. The duplicate sample was collected at location RW1 (see Table 3-1 for addresses of residen-

All residential well samples were obtained from outlets that bypassed water treatment systems and storage tanks, with the exception of
sample RW4, which passed through an iron filter. The water was allowed
to discharge from the outlets for 15 minutes before samples were collected to insure that the sample sources had been purged of standing
water (E & E 1987).

tial well sampling locations).

All residential well samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all residential well samples were analyzed for TCL compounds under the U.S. EPA CLP by Hazleton Laboratories, Inc., of Madison, Wisconsin, and for TAL analytes by JTC Environmental Consultants of Rockville, Maryland.



SOURCE: Ecology and Environment, Inc. 1990; BASE MAPS: USGS, Chippewa Falls, Wi Quadrangle, 7.5 Minute Series, 1972; Eau Claire East, Wi Quadrangle, 7.5 Minute Series, 1972.

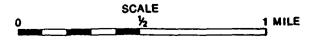


FIGURE 3-4 RESIDENTIAL WELL SAMPLING LOCATIONS

Table 3-1

ADDRESSES OF RESIDENTIAL WELL SAMPLING LOCATIONS

Sample	Well Depth*	Address
RW1 (Duplicate)	95 feet	Non-responsive
RW2	44 feet	
RW3	20 feet	
RW4	110 feet	
RV5	85 feet	

^{*} Well depths provided by owner.

Source: Ecology/and Environment, Inc. 1990.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected soil samples and residential well samples for TCL compounds and TAL analytes.

4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

<u>Soil Samples</u>. Chemical analysis of FIT-collected soil samples revealed substances from the following groups of TCL compounds and TAL analytes: common laboratory artifacts (toluene and bis[2-ethylhexyl]-phthalate), common soil constituents, heavy metals, and metals (see Table 4-1 for complete soil sample chemical analysis results).

Residential Well Samples. Chemical analysis of FIT-collected residential well samples revealed substances from the following groups of TCL compounds and TAL analytes: aromatics, halogenated hydrocarbons, metals, heavy metals, common soil constituents, and the common laboratory artifact toluene (see Table 4-2 for complete residential well sample chemical analysis results).

The CLP quantitation/detection limits are provided in Appendix D.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information				Sample Number	•		
and Parameters	51	52	53	S4	· 55	s 6	37
pate	5/23/89	5/23/89	5/23/89	5/23/89	5/23/89	5/23/89	5/23/8
Time	1245	1255	1310	1320	1350	1405	121
CLP Organic Traffic Report Number	EFK21	EFK22	BFK23	EFK24	EPK25	EFK26	EFK2
CLP Inorganic Traffic Report Number	MEEB65	MEEB66	MEEB67	MEEB68	MEEB69	MEEB70	MEEB7
compound Detected							
(values in µg/kg)							
Folatile Organics				-			
coluene	· 		_	6 J		13	-
emivolatile Organics							-
is(2-ethylhexyl)phthalate		'		140Ј			-
Analyte Detected							
(values in mg/kg)		•					
luminum	5,910	5,490	4,340	5,640	3,660	6,500	5,55
ntimony		5.5JB		3.6JB	3.4ЈВ	6.2JB	5.0J
rsenic	1.3JNWB		0.98JNWB			1.8JNB	1.5JN
arium	63.7	38.8B	23.6B	68.9	16.7B	93.6	85.
admium		 .		0.34JB		0.46JB	_
alcium	1,060	1,650	2,480	2,050	1,250	1,790	1,72
bromium	9.9	13	8.8	10.3	7.1	14.4	7.
obalt	5.1B	5.8B	6.6B	5.5B	4.5B	9.6B	3.8
opper	5.0	15.4	16.1	18	9.0	23.4	5.
ron :	8,730	9,900	9,560	9,800	5,880 🗸	12,500	6,14
ead .	5.3	34	5.8	32	1.3	138	11.
agnesium	1,500	2,220	2,520	2,190	2,050	2,190	1,45
#nganese	333JN	184JN	174JN	318JN	135JN	699JN	36851
ickel	11.1	12.1	12.4	14.3	12.2	17.2	8.
otassium	397B	340B	298B	325B	159B	386B	376

Table 4-1 (Cont)

Sample Collection Information				Sample Mumber			
and Parameters	S1	52	S3	S4	S 5	S6	s 7
sodium			102B	-		91B	
vanadium	25.9	. 24	25.7	89.8	14.8	28.4	14.6
Binc	23.6	47.5	25	77.5	15.6	295	29

INTERPRETATION

COMPOUND QUALIFIER

	J		Indicates an estimated value.	Compound value may be semiquantitative.
4-	- ANALYTE (QUALIFIERS	DEPINITION	INTERPRETATION
ω	N		Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi- quantitative.
	В		Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
	J		Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
	W		Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

DEFINITION

Source: Ecology and Environment, Inc. 1990.

⁻⁻ Not detected.

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED RESIDENTIAL WELL SAMPLES

Sample Collection Information				Sample Number			
and Parameters	RW1	Duplicate	RW2	RW3	RW4	RW5 -	Blan
Date	5/24/89	5/24/89	5/24/89	5/24/89	5/24/89	5/24/89	5/24/8
'ime	1010	1010	1,045	1000	1120	1120	101
LP Organic Traffic Report Number	EFK28	EFK29	EFK30	EFK31	EFK32	EFK33	EPK3
LP Inorganic Traffic Report Number	MEFB73	MEFB75	MEFB74	MEFB76	MEFB77	MEFB78	MEFB7
emperature (°C)	16	16	17	18	16	18	-
pecific Conductivity (ppm)	60	60	50	140	- 45	50	_
H	7.16	7.16	8.18	6.85	8.36	7.58	-
ompound Detected							
values in $\mu q/L)$							
platile Organics						1	
,2-dichloroethene (total)					0.9	****	-
trachloroethene				'	0.8	, 	-
oluene	0.6	-	0.3	_	0.3	 ·	_
thylbenzene	5	_					_
rienes (total)	19	·		-			_
nalyte Detected							
values in µg/L)							
uninum		, 143				71.5B	91.5
timony		5.7	5.4	5.1N	9.4N	-	_
rium		_	20.4B	35.7B	19.4B	21B	-
ryllium			2.7ЈВ		3.1JB		2.5J
lcium	13,400	12,500	13,800	38,300	15,900	13,600	
balt				7.6J*B			
pper	35.8J .	34.1J		-		12.45	
on	97.5JB	91.5JB	499J	429J	636J	65.6JB	1
ad ~	1.2ЈВ	5.73+	0.87JB	0.97JB	0.53JB	1.0JB	0.84J1
gnesium	6,410J	6,160J	£000J	,16,400J	5,580J	6,230J	
anganese ,	11.3J	8.1JB	809J		650J		_

4-4

ANALYTE	QUALIFIERS	DEFINITION	INTERPRETATION
N		Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi- quantitative.
•	·	Duplicate value outsidé QC protocols which indicates a possible matrix problem.	Value may be quantitative or semi- quantitative.
+		Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
8	,	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
. ј		Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1990.

⁻⁻ Not detected.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and/or TAL analytes that are possibly attributable to the HTL site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

Much of the surface topography of southwest Chippewa County consists of rolling prairies produced from unconsolidated glacial drift sediments. The region is characterized by ground moraine, deposited by Wisconsinan-age glaciers, with pitted outwash found in the river valleys. The unconsolidated material is primarily sand and gravel. The bedrock consists of Precambrian crystalline granite, partially overlain by a layer (0 to 200 feet) of sedimentary Cambrian Mt. Simon sandstone (Wisconsin Conservation Department [WCD] 1963).

A review of well logs from the area surrounding the HTL site indicates that the glacially deposited sand and gravel varies in thickness from 40 feet to approximately 110 feet. The well logs also show an absence of confining material between the glacial drift deposits and the Mt. Simon sandstone, indicating that both units are hydraulically connected and constitute a single aquifer, the aquifer of concern (AOC). Because area wells are finished at shallow depths, the well logs do not indicate the depth of the sandstone in this area (Appendix E). The

sandstone may not be present in all areas, as the site is in the Chippewa River Valley, where it is observed that the Precambrian crystalline bedrock directly underlies the drift (WCD 1963).

The majority of the private residential wells within a 3-mile radius of the site draw from the glacial drift material, with the remaining wells drawing from the Mt. Simon sandstone. Most wells are screened at depths of 20 to 110 feet (see Appendix E). The cities of Chippewa Falls, located northeast of the site, and Eau Claire, located southwest of the site, operate municipal wells that draw from the glacial drift. Two of the seven municipal wells operated by Chippewa Falls are located within the 3-mile radius of the site (USGS 1972). Chippewa Falls blends the water obtained from the municipal wells prior to distribution to residents (Allen 1988). The 14 municipal wells operated by the city of Eau Claire are all located outside of the 3-mile radius (USGS 1972). The nearest well to the site is a private residential well located approximately 50 feet south of the site. This well is approximately 44 feet deep and draws from the glacial drift formation (Harling 1989). The general flow of groundwater appears to follow the local topography and flows to the west-southwest toward the Chippewa River (WCD 1963; USGS 1972).

TCL compounds and TAL analytes were detected in groundwater samples collected within a 1/2-mile radius of the site (see Table 4-2). The TAL analytes manganese and zinc were the only substances detected at elevated concentrations, but do not appear to be attributable to the site. Manganese appears to be a common soil constituent in the area, as it was detected in on-site samples in concentrations similar to that of the background soil sample S7 (see Table 4-1). Zinc was detected at an elevated concentration in one residential well sample, RV1, and was also detected at an elevated concentration in one on-site soil sample, S6. However, the source of the zinc detected in the residential well sample appears to be something other than the HTL site for the following reasons.

Assuming a general groundwater flow to the west-southwest,
 sample RV1 would not be downgradient from the site.

 Zinc was detected in the downgradient samples RV2 and RV3 at concentrations similar to, or less than, the concentration detected in the upgradient sample RV5 (see Table 4-1).

The zinc detected in residential well sample RW1 (262J μ g/L) (see Table 4-2 for definition of J qualifier) is not considered a health risk to persons using water from this well, because the concentration is well below the maximum contaminant level of 5,000 μ g/L listed in the Safe Drinking Water Act (SDWA) (SDWA 1974).

The TAL analytes lead and zinc were detected in elevated concentrations in on-site soil sample S6. All other TCL compounds and TAL analytes detected in on-site soil samples were found to be present at concentrations similar to those of the background soil sample (S7) (see Table 4-1 for complete soil sample analysis results).

There does exist a potential for TCL compounds or TAL analytes to migrate from the site to groundwater in the vicinity. This potential is based on the following site information.

- TCL compounds and TAL analytes were detected in on-site soil samples.
- The unsaturated material found at the site is composed of sands and gravels, allowing for natural percolation to occur.
- The site was not properly closed until approximately 2 years after on-site disposal was discontinued.
- Private residential wells are as close as 50 feet from the site.

The potential for such migration to occur, however, appears to be low for the following reasons.

- Lead and zinc are the only TCL compounds or TAL analytes detected at elevated concentrations in on-site soil samples, and, characteristically, neither substance has a high degree of solubility or mobility.
- Lead and zinc were detected in the downgradient residential well samples at concentrations similar to those in the upgradient sample.

Targets within a 3-mile radius of the site potentially affected by TCL compounds and TAL analytes in the AOC include the 12,270 residents using Chippeva Falls municipal water and an additional population of approximately 3,040 residents obtaining water from private residential wells which are screened in the AOC, for a total population of 15,310. The population for those residents with private wells was calculated by counting the number of houses (1,030) within a 3-mile radius of the site, using a topographic map (USGS 1972) and multiplying this number by 2.95, the persons-per-household figure for Chippeva Falls County (U.S. Bureau of the Census 1982). All drinking water in the area is ground-water obtained from the AOC (Allen 1988).

5.3 SURFACE VATER

Surface water samples were not collected at the HTL site because no potential overland migration pathway leading from the site was observed prior to the SSI (USGS 1972).

The surface water bodies nearest to the site are three small gravel quarries that have filled with water. Two of these appeared to be inactive and were located approximately 200 feet south of the site. These third is still active and is located approximately 200 feet southwest of the site. These quarry ponds are probably discharge areas for groundwater. These ponds may be used for swimming by the local residents; however, no evidence of this activity was observed during the SSI. The ponds were not sampled because they were not identified at the time of the SSI work plan preparation.

The Chippewa River is located approximately 1/4 mile west of the site and is used for recreational purposes such as boating and fishing

(WCD 1963). Fisheries also exist along the Chippewa River in this area (WCD 1963). No potential exists for contaminants to migrate from the site to the river because of intervening terrain.

There is a potential for TCL compounds or TAL analytes to migrate to surface water bodies in the vicinity of the site via the eroded areas located along the west border and southwest corner of the site where the site boundary slopes sharply down to Shaffer Road. The potential for migration of contaminants appears to be low, however, because of the following factors.

- The TAL analytes detected in elevated concentrations in onsite soil samples are characterized by low solubility and mobility.
- Intervening terrain and residential areas separate the site from the surface water bodies.

Because surface water is not used for drinking water, the potential target population potentially affected by surface water migration of TCL compounds and TAL analytes from the site is constituted of those persons who use the surface water bodies for recreational purposes.

5.4 AIR

A release of TCL compounds and TAL analytes to the air was not documented during the SSI of the HTL site. During the reconnaissance inspection, FIT site-entry instruments (OVA 128, radiation monitor, colorimetric monitoring tubes for cyanide, and combination oxygen meter and explosimeter) did not detect levels above background concentrations at the site (E & E 1987). In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does exist for windblown particles to carry TCL compounds and/or TAL analytes from the site. This potential is low, however, because the majority of the site is covered with vegetation. The population within a 4-mile radius of the site is approximately 37,560 persons. This population was calculated in the same manner described in Subsection 5.2.

5.5 FIRE AND EXPLOSION

A small fire occurred on-site in 1987. The fire resulted from an out-of-control campfire which was started by persons gathering on the site grounds. There was no major damage to the site reported (McEathron 1989). Two abandoned campfire sites were observed on-site during the SSI, indicating that the site continues to be used for these purposes. It appears that the only potential for fire and/or explosion to occur on-site would be campfires occurring during such unauthorized use of the site, as the combination oxygen meter and explosimeter readings indicate that there is no apparent potential for fire and/or explosion at the HTL site from on-site factors.

The population within a 2-mile radius of the site potentially affected by a fire or explosion is approximately 5,090 persons. The approximate target population was calculated in the same manner described in Subsection 5.2.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, there is no documentation of an incident of direct contact with TCL compounds and/or TAL analytes at the HTL site.

However, there is a potential that the public may come into contact with TCL compounds and/or TAL analytes detected at the site. The potential for direct contact is based on the following information.

- TCL compounds and TAL analytes were detected at the HTL site in surface soil samples.
- Access to the site is not restricted, the site is not completely fenced, and no other means of security is used at the site.
- Local residents use the dirt trail on-site as a walking/ hiking trail.
- The HTL site is a location for gatherings of local teenagers.

The target population potentially affected by direct contact includes those persons residing within a 1-mile radius of the site, a population of 1,440 persons. The approximate target population was calculated in the same manner described in Subsection 5.2.

6. REFERENCES

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 Associates, Inc., Eau Claire, Wisconsin, interview, conducted by
 Ted Nehrkorn and Regina Bayer of E & E.
- McEathron, Dick, May 23, 1989, Road Superintendent, Hallie Township,
 Wisconsin, interview, conducted by Ted Nehrkorn and Regina Bayer of
 E & E.
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- WDNR, March 20, 1972a, License Application for a Landfill Type of Solid Waste Disposal Operation, Township of Hallie Landfill.
- ______, April 20, 1972b, Landfill Inspection Report, Township of Hallie Landfill.
- ______, April 4, 1978, Landfill License Application, Township of Hallie Landfill.
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- ______, February 18, 1981a, Solid Waste Enforcement Report, Township of Hallie Landfill.

 , April 13, 1981b, letter, to Zealious Joles, Chairman,
Township of Hallie, from George Meyer, Administrator, WDNR.
 , August 24, 1984, Solid Waste Incident Report, Hallie Town
Landfill.

4177:3

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

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SITE 4-MILE RADIUS MAP
Other:

APPENDIX B

U.S. EPA FORM 2070-13



Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE

	IFICATION
OI STATE	02 SITE NUMBER
WI	098/095920

VEPA	PART 1 - SITI	SITE INSPECT ELOCATION AND			ATION WI	098/095920
IL SITE NAME AND LOCATIO	N				······	
O1 SITE NAME ROOM common, or descr			02 STREET, ROUT	ENO., OR SP	ECIFIC LOCATION IDENTIFIER	1 0 0 1
Hallie Town L	andfill				sec 23, T.281	
Ch.ppewa Falls	-				Chippewa	0700UNTY 08 CONG CODE DIST 017. 07
_ 1	LONGTINOE 8 1° 23 10°.0	10 TYPE OF OWNERSHI A. PRIVATE D. F. OTHER —			D.C. STATE D. COUNT	
III. INSPECTION INFORMATI						
OT DATE OF INSPECTION 05 123 1 89 MONTH DAY YEAR	OZSTESTATUS		953	1978 ENDING YEAR	UNKNOWN	1
04 AGENCY PERFORMING INSPECT	TON (Charles and Marketon)					
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DE.STATE DF.STATECO	NTRACTOR	Prince of Sent	D G. OTHER_		(Specify)	
OS CHEF INSPECTOR		OS TITLE			07 ORGANIZATION	08 TELEPHONE NO.
Ted NehrKorn	.	Environm	ental En	gineer	EFE	(312) 663-9415
09 OTHER INSPECTORS		10 TITLE			11 ORGANIZATION	12 TELEPHONE NO.
William Perpi	ch	Water Re	source M	anager	EFE	(312)663-9415
Karen M. Spar	ngler	Environn	nental En	ngineer	EEE	(312) 663-9415
Regina Bayer		Water (Chemist		EFE	(312) 663-9415
Jeffrey R. Dickson		Geolog	Geologist			(312) 663-9415
						()
13 SITE REPRESENTATIVES INTER	VIEWED	14 MLE	15ADDR	Hagen	Rd	16 TELEPHONE NO
Dave Meier	·	Hallie Town	ship Chip	pewa F	4/15, WI	(715) 723-2911
Dennis L. John	son, P.E.	Project En Ayres Ass	ocates Equ	W. C. Claire	lairement, Ave , WI	(715)834-3161
Dick Mc Eath	ron	Road Superi Hallie Towns		Hagan pewa F	Rd. alls, WI	(715) 723-29//
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IV. INFORMATION AVAILA	BLEFROM		,		······································	
01 CONTACT		02 OF Honey Orga	10104			03 TELEPHONE NO.
Robin Schmid	1+	Wiscons	sin Depar	rtmen	t of Natural Res.	16081 267-7569
04 PERSON RESPONSIBLE FOR S		U.S. EPA/	OG ORGANIZA	/	O7 TELEPHONE NO.	08 DATE
Ted NehrKon	rn	FTI	EFE	Ξ	(312)663-9415	11 1/4 1/989

Ω	
7	EPA

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

SEP	A		-	TION REPORT EINFORMATION	· 	WI 098/	095920
IL WASTE ST	TATES, QUANTITIES, AN	ID CHARACTERI	STICS			· _	
## A SOUD		02 WASTE QUANTIL (Messures of must be TONS	TYAT SITE Prospersord Unknewn	B A. TOXIC D B. CORROS D C. RADIOA	O3 WASTE CHARACTERISTICS (Check at marge) BLA TOXIC DE. SOLUB D B. CORROSIVE D F. INFECT D C. RADIOACTIVE D G. RAMM BLO. PERSISTENT D H. ICHERA		VOLATILE IVE VE PATIBLE PPUCABLE
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ML WASTET	YPE	-				,	
CATEGORY	SUBSTANCE N	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	-	
ຮເມ	SLUOGE						
OLW	OLY WASTE	··········		<u> </u>	L		•
SOL	SOLVENTS				TCL COM	pounds and T	AL
PSO	PESTICIDES					were detected	
occ	OTHER ORGANIC CH	HEMICALS	Unknown			c soil samples.	
100	INORGANIC CHEMIC	:ALS				,	
ACO	ACIOS						۲.
BAS	BASES						
MES	HEAVY METALS		Unknown				
IV. HAZARD	OUS SUBSTANCES (See A)	ippendix for most frequent	ly cred CAS Mumberel	•			
01 CATEGORY			03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
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	For specific	hazardous					
	substances for			1		1	†
	refer to Tabl					1	
	Chemical Analy			1		1	
	soil sample Su			1		1	1
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	Chemical Analy		<u> </u>	1		1	
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V. FEEDST	OCKS (See Appendix for CAS Munic	store)				···	 .
CATEGORY	Y 01 FEEDSTOC	CKRAVE	02 CAS NUMBER	CATEGORY	O1 FEEDS1	TOCKNAME	02 CAS MUMBER
FDS	N/A			FOS			
FOS			T	FDS			,
FD\$			·	FDS			
FOS				FDS		•	
	ES OF INFORMATION ICA		., state lites, sample analyse	E. reporte)	<u> </u>		L
Labor ERE-	ratory Analytic - Chicago, Reg	ial Data pion I	``			. ~	

≎EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

O1 STATE 02 SITE NUMBER

W.I. D981095920

PART 3-DESCRIPTION (OF HAZARDOUS CONDITIONS AND INCIDENT	s [wrlo	1370 73728
IL HAZARDOUS CONDITIONS AND INCIDENTS			
01 B A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 15,3/0	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	■ POTENTIAL	□ ALLEGED
See Section 5-2	of Narrative		
01 & 8. SURFACE WATER CONTAMINATION UNKNOWN 03 POPULATION POTENTIALLY AFFECTED:		* POTENTIAL	C] ALLEGED
See Section 5-3	of Narrative.		
01 E C. CONTAMNATION OF AR 03 POPULATION POTENTIALLY AFFECTED: 37, 56 C		8 POTENTIAL	C) ALLEGED
See Section 5-	4 of Narrative		·
01 8 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 5090	02 dl OBSERVED (DATE:	C POTENTIAL	D ALLEGED
See Section 5-5 c	of Narrative		1
01 B E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 446	02 J OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	■ POTENTIAL	C WITEGED
See Section 5-6 o	of Narrative		,
01 B F. CONTAMINATION OF SOIL 4. 0 03 AREA POTENTIALLY AFFECTED: 400	02 B OBSERVED (DATE: 5/23/89) - 04 MARRATIVE DESCRIPTION	O POTENTIAL	O ALLEGED
See Table 4-1, And	olytical Summary	~	
01 ELG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 15,310	02 (1 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	S POTENTAL	C) ALLEGED
· See Section 5-2 o	f Narrative	,	,
01 [] IL WORKER EXPOSURE/NURY 03 WORKERS POTENTIALLY AFFECTED: 0	02 (I) OBSERVED (DATE:) 04 MARRATIVE DESCRIPTION	O POTENTAL	C) ALLEGED
Currently no on-site	Workers.		
01 EL POPULATION EXPOSURE/NURY 03 POPULATION POTENTIALLY AFFECTED: 37,56		■ POTENTIAL	C) ALLEGED
See Section 5 of	: Narrative		• ,
	•		

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

01 STATE 02 SITE NUMBER

WI 0981095920

PART 3 - DESCR	IPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	W = P4	1043720
IL HAZARDOUS CONDITIONS AND INCIDEN	TS (Continued)		
01 EL J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 D 08SERVED (DATE:)	POTENTIAL	D ALLEGED
A lastial ex.	sts for plant life to become affe	cted by t	he
intoke of TCC	compounds or TAL analytes throu	gh there roo	t systems
01 B K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION sectors acressed at species	02 (I) OBSERVED (DATE:)	POTENTIAL.	D ALLEGED
A potential exis	ts for animal life in the area to nas and for TAL analytes detecte	o be affect d on site.	cted
01 ET L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 (1) OBSERVED (DATE:)	D POTENTIAL	O ALLEGED
None observe	e d		
01 M. UNSTABLE CONTAINMENT OF WASTES	• • • • • • • • • • • • • • • • • • • •	D POTENTIAL	D ALLEGED
OS POPULATION POTENTIALLY AFFECTED: TLL Compounds Samples.	and TAL analytes were detected in	on-site s	o;1
01 [] N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIME DESCRIPTION	02 () OBSERVED (DATE:)	D POTENTIAL	C) ALLEGED
None observed	or Documented,		
01 [] O. CONTAMINATION OF SEWERS, STORM 04 NARRATIME DESCRIPTION	•	O POTENTIAL	O ALLEGED
None observed or	Documented		
O1 [] P. ILLEGAL/UNAUTHORIZED DUMPING O4 NARRATIME DESCRIPTION	02 [] OBSERVED (OATE:)	D POTENTIAL	() ALLEGED
None observed	or Documented.	,	
OS DESCRIPTION OF ANY OTHER KNOWN, POT	ENTIAL, OR ALLEGED HAZARDS		
None		_	,
•	•	V	•
ML TOTAL POPULATION POTENTIALLY AF	FECTED: 37,560	<u> </u>	
IV. COMMENTS			
The site has been closed covered with vegetation. T	l, graded and seeded and the majority he site is a popular party place for 10	of the sit cal residen	e is ts
V. SOURCES OF INFORMATION (Car strocks and	erences, e.g., scale Mes, samply analysis, records		
EPE-Chicago, Region I			

_	POTENTIA	AL HAZAS	יוסמו	S WASTE SITE		L IDENTIFICATION
ŞEPA	FUIERIN	SITE INS				01 STATE 02 SITE NUMBER
VIIA	PART 4 - PERMI			TIVE INFORMAT	ion ¹	WI 198/095920
IL PERMIT DEFORMATION					 	
OI TYPE OF PERMIT ISSUED	G2 PERMIT NUMBER	03 DATE	SSUED	04 EXPIRATION DATE	05 COMMENTS	
C) A. NPDES					·	
() B. UIC						
O.C. AIR						
D. RCRA	l					
D.E. RORA INTERIM STATUS			7			
O.F. SPOCPLAN	·					
BG. STATE BOOM Sentan Landhil	1771	101 7	1	1978	Licensed	for sanitary washes from
DH. LOCAL Speciff		- · · · · · · · · · · · · · · · · · · 	•		139311 5 100	2734 NO CE GEARS. FED
DL OTHER Speeds						
D.J. NONE					· · · · · · · · · · · · · · · · · · ·	
III. SITE DESCRIPTION				·	L	
	AMOUNT 03 UNIT	OF MEASURE	04 11	EATMENT (Check of pure		OS OTHER
[] A SUFFACE IMPOUNDMENT			1	•		
O 6. PLES				INCENERATION UNDERGROUND INJ	CCTICAL	DI A. BUILDINGS ON SITE
D C. DRUMS, ABOVE GROUND				CHEMICALIPHYSIC		NA
D D. TANK, ABOVE GROUND				BIOLOGICAL	-	1 10
D E. TANK, BELOW GROUND			4	WASTE OIL PROCES	SING	06 AREA OF SITE
■ F.LWOFUL	<u>4 Ac</u>	res	OF.	SOLVENT RECOVER	Y	
□ G. LANDFARM			- D G OTHER RECYCLING/RECOM			<u>6.6</u>
* EI H. OPEN DUMP			D H. OTHER			İ
CLOTHER			ł	₩A "	···	
The only hisordous is approximately 100 gallous depos ted by Cointral Dai	neste allegedea ons of voc's ta between	d to 1	ding and	been depos. 1,1,1- Taichl	ted in the accethance	ne landf.11 and Trichlosethylene
				ţ		.•
IV. CONTARMENT						
01 CONTABOLENT OF WASTES (Check and				-		
() A ADEQUATE, SECURE	D B. MODERATE	# C.	NADEC	WATE, POOR	() () () ()	URE, UNSOUND, DANGEROUS
The site is not fence approximately 1/3 of the ancies use frequently	ed along the west side is	south fenced. suth b	sid A d	e and the dirt path ru al residents	South early	est corner. Only in the site
V. ACCESSIBILITY						
OI WINSTE EASILY ACCESSIBLE: YES	ds and TAL	analy es also	tes a obser	ucre detected vect on site	d in on s.	te surface
VL SOURCES OF INFORMATION (C+++++		tendes evening u	-			
Eff-Chicago, Region	T .				•	

						·	Lam		
O EDA		POTE	NTIAL HAZAR			TE .		ENTIFICATION ATE 02 SITE NUM	
SEPA			SITE INSPECT	· · · · · · · · · · · · · · · · · · ·	-	F1	WI		
		PART 5-WATER	, DEMOGRAPHI	C, AND ENVIR	ONM	ENIAL DATA			
IL DRINKING WATER	SUPPLY								
01 TYPE OF DREADING SUP	PLY		02 STATUS	•			O.	DISTANCE TO SIT	E
	SURFACE	WELL	ENDANGERE)	MONITORED		<i>a</i> 2	
COMMUNITY NON-COMMUNITY	A D	8. 8 D. 8	A. D D. O	8. () E. ()		C. ₩ F. © ԱՈ <i>Kրա</i> ր	-		two ft
	<u> </u>	U. 4 3	0.0			F. G WILLIAM	1 8		Jim 1T
ML GROUNDWATER OI GROUNDWATER USE IN	1000 0004 000			`					
8 A ONLY SOURCE R	•	D 8. DRINKING (Other sources avails	DUSTRIAL IPRIGATIO	(Limbod)	EPCIAL,	BACUSTRIAL, ERFAGAT	TON	[] (0. NOT USED, U	NUSEABLE
02 POPULATION SERVED 6	Y GROUND WAT	ER 15,310	_	03 DISTANCE TO	NEARE	ST ORDOGNIG WATER Y	WELL_	150	ing ft
04 DEPTH TO GROUNDWAT	ER	05 DIRECTION OF GRO	DUNOWATER FLOW	06 DEPTH TO ACK	FER	OF POTENTIAL YELL OF ACUIFER	D	08 SOLE SOURC	Æ AQUIFER
	(20) ^	West-S	outhwest	12	m	NA	_{apd}	O YES	■ NO
09 DESCRIPTION OF WELLS							-100-47	<u> </u>	
10 RECHARGE AREA				11 DISCHARGE A					
## YES COMMENTS	Rechar local rain to ground	ge area thro fall perchole	uting uting	ENO CO	MMEN	ns Dischar pits and	ge t	hrough q ippewa Ri	ucr
IV. SURFACE WATER	15 3100110	<u> </u>		<u> </u>					
01 SURFACE WATER USE A B A. RESERVOIR, RE DRINKING WATE 02 AFFECTED/POTENTIAL	ECREATION ER SOURCE	IMPORTA	ON, ECONOMICALLY NT RESOURCES	Y E.COM	MERCI	AL NOUSTRIAL	a	O. NOT CURRE	MLY USED
NAME:	LI ATLOIDU					AFFECTED	1	DISTANCETO	CTE
,						ATELIE	'	USIANCE IO	, ale
Ch.ppcwa	K.ven					0	_	~'14	(mi)
						0	-		(ml)
						0			(mi)
V. DEMOGRAPHIC A	ND PROPERT	Y INFORMATION							
01 TOTAL POPULATION W	THE				۵	2 DISTANCE TO HEAR	EST POP	ULATION	
ONE(1) MILE OF SITE A 440 NO. OF PERSONS		10 (2) MILES OF SITE 1. 50 90 10. OF PERSONS	C£	3) MILES OF SITE 19, 720 NO. OF PERSONS			<u> 50</u>	ft deal	•
03 NUMBER OF BUILDINGS	WITHIN TWO (2)	MLES OF SITE		04 DISTANCE TO	HEARE	STOFF-SITE BUILDING	3		
	~150					~50 f	4	(mil)	
05 POPULATION WITHIN VI	CINITY OF SITE	Pro-de nerrall-e description	of maters of population —and	n viciney of pale, e.g., au	at -Bope,	, enterly provided others a			
	See se	ction 3-5	I of No	rcative	,				•

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

SEPA	SITE INSPEC PART 5 - WATER, DEMOGRAPH	TION REPORT IC, AND ENVIRONMENTAL DAT	WI 098/095920
VL ENVIRONMENTAL INFORMA	ATION ·		
O 1 PERMEABILITY OF UNSATURATED 2	(ONE (Check one)		
□ A. 10 ⁻⁶ – 10 ⁻	-6 cm/sec D B. 10-4 - 10-6 cm/sec D	C. 10 ⁻⁴ − 10 ⁻³ cm/sec ■ D. GREA	TER THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Check	onel		
D A. IMPERI Scott then	MEABLE D B, RELATIVELY IMPERMEAB 10 ⁻⁴ cm/sect (10 ⁻⁴ - 10 ⁻⁴ cm/sect	LE C, RELATIVELY PERMEABLE (10 ⁻² - 10 ⁻⁴ envised	D D. VERY PERMEABLE (Greder than 10 ⁻² cm sec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	OS SOIL PH	
40-110 mg	NA m		
06 NET PRECIPITATION /	07 ONE YEAR 24 HOUR RANFALL	OS SLOPE DIRECTION OF S	TE SLOGE TODDAY MEDIAGE SLOGE
(in)	2.4 m	120 × 5-5W	TERRAN AVERAGE SLOPE
09 FLOOD POTENTIAL	10		
	OODPLAIN	IER ISLAND, COASTAL HIGH HAZARD A	
11 DISTANCE TO WETLANDS (5 acre min)	,	12 DISTANCE TO CRITICAL HABITAT	pagemed apocled
ESTUARINE	OTHER		NA(mi)
A_NA(mi)	B. ~ 400 ft mg	ENDANGERED SPECIES:	
13 LAND USE IN VICINITY			
DISTANCE TO:			
COMMERCIAL/INDUST	RESIDENTIAL AREAS; NATIO RIAL FORESTS, OR WILDUI		AGRICULTURAL LANDS GLAND AG LAND
A ~ 1/8 (m)	8. 50 ft	cNA_	ma o. Adjacent ma
14 DESCRIPTION OF SITE IN RELATION	170 STROOT HOUSE TOOCCOADING		
14 Description of all entrees inc.	TO SUPPOSITION OF THE PARTY OF		
	See Appendix A	in Norretive	
3	See Appendix A	111 14211 4110	
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VIL SOURCES OF INFORMATI	ON Can conclic references a.e. man flow secretary	h. maarkii	•
			
E & E - Chicago,	119/11		
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1			·

0 = 0.4			FICATION		
\$EPA		1	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION		1981095920
IL SAMPLES TAKEN					
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		5	See Section 3-4 of Norration	∫e	on file
SURFACE WATER					
WASTE			<u>'</u>		
AIR	1	·			
RUNOFF					
SPILL					
SOIL		7	See Section 3-4 of Narrative		on file
VEGETATION					
OTHER					
III. FIELD MEASURE	MENTS TAI				
OI TYPE		02 COMMENTS	·		
OVA - 128			eadings Above Background in Bri	,	Zone
Rad- mini			eadings Above Background Ob		
Explos, mete	.x		eadings Above Background, Obt		
O, Meter		All Rea	adings Obtained Were Within	Range	
Drager Tubes			adings Above Background Ob	tained	
IV. PHOTOGRAPHS			7		
01 TYPE GROUND			02 IN CUSTODY OF EEE		
03 MAPS B YES I NO	04 LOCATION E		ago, Region V		
					
The field	d para	meters pH,	temperature and conductivity were	collected for	or-
the resident	lal we	11 samples	temperature and conductivity were in See Table 4-2 for these analy	Ses.	
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	•		•		
VI. SOURCES OF IN	FORMATIO	W (Car specials reference	ret, e g., state lifes, surger prorpss, reportal		
ê èe-Chic			•		
	3 - 1	J —			

\$EPA	P	SITE INSPE	RDOUS WASTE SITE CTION REPORT ER INFORMATION	LIDENTIFICATION WILL	CATION SITE NUMBER 98/09 5 920
IL CURRENT OWNER(S)			PARENT COMPANY # ADDICATES		
Hallie Townsh.p.		02 D+ B HUARBER	OS NAME NA		09 D+B NUMBER
957 Hagan Rd		04 SIC CODE	10 STREET ADDRESS (P Q. Box, NFO 1, acc)		11 SIC COD€
Chippewa Falls		072PCOOE 54729	12 (11)	13 STATE	14 ZP CODE
OI NAME	<u> </u>	02 D+8 HUMBER	OS NAME		09 D+8 NUMBER
03 STREET ADDRESS (P.O Box, AFD 4, onc.)		04 SIC CODE	10 STREET ADDRESS (P.O. doc, NFO F, onc.)	<u></u>	11 SIC CODE
05 CITY	06 STATE	07 ZP COOE	12 CITY	13 STATE	14 ZP COOE
OI NAME		02 D+ 8 MUMBEA	OS NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, exc.)		04 S _P C COO€	10 STREET ADDRESS (P.O. Son, AFO F, onc.)	<u>-</u>	11SIC CODE
OS CITY	06 STATE	07 ZP COOE	12 0117	13 STATE	14 ZIP CODE
O1 NAME		02 O+8 NUMBER	OS NAME		090+8 NUMBER
03 STREET ADDRESS (P.O. Box, NFO 4, ok.)		04 SIC COO€	10 STREET ADDRESS (P.O. Box, NFD F, etc.)		11SIC C00€
05 CXTY	06 STATE	07 ZP COOE	15 0114	13 STATE	14 ZIP COOE
ML PREVIOUS OWNER(S) ALM MOST MOON GOOD			IV. REALTY OWNER(S) # applicable for	most recent first	
OI RAME N A		02 0+8 NUMBER	O1 NAME NA		02 D+8 NUMBER
CO STREET ADDRESS (P.O. Box, NYO F, oil.)		04 SIC CODE	03 STREET ADDRESS P.O. Soc. NOV. de.)		04 SIC CODE
05 CTTY	OBSTATE	07 ZP COOE	os cita	00 STATE	07 ZIP CODE
O1 NAME		02 D+B NUMBER	O1 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. But, NFD /, onl)		04 SIC COD€	03 STREET ADDRESS (P.O. Box, APD 4, onc.)		04 SIC CODE
OS CATY	06 STATE	07 ZIP CODE	os caty	O6 STATE	07 ZIP CODE
O1 NAME		02 0+8 HUMBER	O1 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. doc, NYO F, oc.)		04 SIC COOE	03 STREET ADDRESS P.A. Soc. NOV. oc.)		04 SIC 000E
OSCITY	06STATE	07 ZIP COOE	OS CITY .	06 STATE	07 2P COOE
V. SOURCES OF INFORMATION (CH #000	lc advances	, e.g., same first, sample analysis	, reported		
E?E-Chicago, Region I	L 1				
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EPA FORM 2070-13 (7-81)					

		PO	TENTIAL	HAZAR	DOUS WASTE SITE		L IDENTIFI		
\$EPA			SITE	NSPEC'	TION REPORT	'	WI D	981095	920
P			PART8-	ART 8 - OPERATOR INFORMATION			[W+ 10	141013	
IL CURRENT OPERATO	R provide a different from	0=000		·	OPERATOR'S PAREN	T COMPANY	odcable:		
01 NAME			02 D+8 MUME	EA	10 NAME			11 D+B NUMB	EA
•		ł			NΑ		1		
03 STREET ADDRESS P.O. BO	L, RFD F. eAC.)		04 9C 00	DOE	12 STREET ADDRESS P.O.	ou, RFD /, etc.)	L	13 50 00	ο€
								-	1
OS CITY		OG STATE	07 ZP CODE		14 CITY	·- ·	15 STATE	16 2P COOE	
		1			`		1 1		l
08 YEARS OF OPERATION	ON NAME OF OWNER								
	•	•	•						
III. PREVIOUS OPERAT	OR(S) (List most moont #	2C pro-str est	y I allows how	•	PREVIOUS OPERATO	RS' PARENT CO	MPANIES #	ecofcetti	
OI NUME			02 D+8 NUM		10 NAME			11 D+8 NUMB	:EA
· NA					NA				
03 STREET ADDRESS P.O. So	c, NFO /, esc.)		045000	Œ	12 STREET ADDRESS P.O.	DE, RFD 1, MC.)		13 5000	XOE
			1 .		ł			ı	
06 CITY		06 STATE	07 ZP CODE		14 CITY		15 STATE	16ZPCODE	
				,]				
OB YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	S PERIOD		-				
OI NAME			02 D+8 NUM	BEA	10 NACE			11 D+8 NUMB	XER
l					ì				
03 STREET ACCRESS P.O. BO	, RFD 4, etc.)		04 SC CC)OE	12 STREET ADDRESS P.Q. P	os, NFO1, etc.)		13 SIC CC	DOE
					,			1	-
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE	16 ZP CODE	
 									•
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING TH	SPERIOD						
01 NAME			02 D+8 NUM	BEA	10 NAVE			11 D+8 NUM	BER
03 STREET ACORESS P.O. BO	c, RFO!, etc.)		04500	ODE	12 STREET ADDRESS (P.O.	los, NFO /, edc.)		13 SIC CC	30€
i		-						1	
05 CATY		06 STATE	07 ZP COOE		14011		15 STATE	16 2P CODE	
		<u> </u>	<u> </u>						
06 YEARS OF OPERATION	09 NAME OF OWNER	DUPPING TH	IS PERIOD			ı			
IV. SOURCES OF INFO	RMATION (Car speed	le references.	4.g., 1001 God, 0		reports				
E & E - Chica	go, Region ?	X.				\ -			
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SITE HISPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION IL ON-SITE GENERATOR OF MALE NA OF STATE OF BINAMORY NA OF STATE OF BINAMORY OF STATE OF STA		P	OTENTIAL HAZ	ARDOUS WASTE SITE	L IDENTIFI	
ELON-SITE GENERATOR 51 NAME N A 05 STREET ADDRESS p.o. am, 1904, mil 04 SECODE 18. OFF-SITE GENERATOR(S) 05 STREET ADDRESS p.o. am, 1904, mil 04 SECODE 05 STREET ADDRESS p.o. am, 1904, mil 04 SECODE 05 STREET ADDRESS p.o. am, 1904, mil 04 SECODE 05 STREET ADDRESS p.o. am, 1904, mil 04 SECODE 05 STREET ADDRESS p.o. am, 1904, mil 04 SECODE 05 STREET ADDRESS p.o. am, 1904, mil 06 STATE OF 2P CODE 06 STATE OF 2P CODE 07 STREET ADDRESS p.o. am, 1904, mil 08 STATE OF 2P CODE 09 STREET ADDRESS p.o. am, 1904, mil 09 SECODE 09 STREET ADDRESS p.o. am, 1904,	(S.FPA				OI STATE OF SITE NUMBER	
OT THE PROPESS P.D. BOLL MOVE, M.J. OS STATE OF DEPCOORE SITUAL ADDRESS P.D. BOLL MOVE, M.J. OS STATE OF DEPCOORE OS STATE OF DE	VL171	PART 9	-GENERATOR/T	RANSPORTER INFORMATION	1401	1070 1070
AND COSTINEET ACCORDESS pro. dm. prov. mil ON STATE OF DEPOCOE 18. OFF-SITE GENERATOR(S) 101 NUME 102 OF B HAMBER 101 NUME 104 SECCOOE 105 STINEET ACCORDESS pro. dm. prov. mil ON STATE OF DEPOCOE 105 COTY 106 STATE OF DEPOCOE 107 ON STATE OF DEPOCOE 107 ON STATE OF DEPOCOE 108 STATE OF DEPOCOE 109 STATE OF DEPOCOE 1	IL ON-SITE GENERATOR					······································
OS STATE DE SERRATORIS OS STA	O1 NAME		02 0+8 NUMBER			
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OS STREET ADDRESS p.a. a., NO. a. a.) OS STATE OF 2P CODE OS CITY			02 D+B NUMBER	01 NAME		02 D+B NUMBER
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OT THE DOTESS P.O. BILL MOVE, MCJ. OR STATE OF ZP CODE OF STATE OF ZP	03 STREET ADDRESS (P.O. Box, AFD V, ok.)		04 SIC CODE	03 STREET ADDRESS (P.O BOL RFO P, ANC.)	•	04 SIC CODE
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OS CITY OS STATE OF 2P CODE OS CITY OS	O1 NAME	1		01 NAME		02 D+8 NUMBER
IN. TRANSPORTERS OI NAME American Disposal Ostreet adoress pro dr. more, and Ostree	03 STREET ADDRESS (P.O. Box, AFD 8, sec.)	1	04 SIC CODE	03 STREET ADDRESS (P.O. BOX, AFD F, etc.)		04 SIC CODE
American Disposal OF STATE OF 2P CODE OS STATE OF 2P CODE V. SOURCES OF INFORMATION for growth reference sq. state the couple analysis, record IV Transporter(s) Continued Sanitary Disposal Inc. E? E - Chicago, Region IL	ος απν	06 STATE	07 ZIP CODE	05 CTTY	06 STATE	07 ZIP CODE
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OS CITY OS STATE OF ZP CODE OS STATE OF ZP CODE OS STATE OF ZP CODE OS CITY OS STATE OF ZP CODE V. SOURCES OF INFORMATION Consequent administrative age, along live, appearantly and any			02 D+B NUMBER	Dresels Garbage	Service	02 D+6 NUMBER
OT MAME Mewhorter Disposal OS STREET ADDRESS P. a. but, MOV. OC.) OS STATE OF ZP OCCO. OS STATE	CO STREET ADDRESS (P.O. But, AFO F, etc.)		04 SIC CODE	03 STREET ADDRESS (P.D. Box, NFO F, oct.)		04 SC CODE
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V. SOURCES OF INFORMATION COMMENTS AND			04 SIC COOE	03 STREET ADDRESS P.O. Box, NºD F. onc.)		04.8C 000E
IV Transporter(s) Continued Sanitary Disposal, Inc. ERE-Chicago, Region I	os cary	OS STATE	07 ZP COO€	os arry	OS STATE	O7 ZIP CODE
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Eze-Chicago, Region IL				ak, reported		
	IV Transporter(s) Cont Sanitary Dispos	inved	nc.		•	
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	Eże-Chicago, Region	工			,	
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			-			
	EPA FORM 2070-13 (7-61)		<u> </u>			

\$EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	L IDENTIFICATION 01 STATE 02 SITE MANBER WI D98/095 920
IL PAST RESPONSE ACTIVITIES	·	
01 () A WATER SUPPLY CLOSED 04 DESCRIPTION // A	02 DATE	03 AGENCY
01 D. B. TEMPORARY WATER SUPPLY P 04 DESCRIPTION A A		
01 D.C. PERMANENT WATER SUPPLY P 04 DESCRIPTION A	ROVIDED 02 DATE	03 AGENCY
01 (1) D. SPILLED MATERIAL REMOVED 04 DESCRIPTION .		03 AGENCY
01 (I) E. CONTAMINATED SOIL REMOVES 04 DESCRIPTION // A	02 DATE	03 AGENCY
01 (D.F. WASTE REPACKAGED 04 DESCRIPTION NA		
01 D G. WASTE DSPOSED ELSEWHERE 04 DESCRIPTION // A		
01 () H. ON SITE BURIAL 04 DESCRIPTION // A	02 DATE	
01 () L IN SITU CHEMICAL TREATMENT 04 DESCRIPTION //A	O2 DATE	
01 D.J. IN SITU BIOLOGICAL TREATMEN 04 DESCRIPTION A		
01 D K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 D.L. ENCAPSULATION 04 DESCRIPTION NA	O2 DATE	03 AGENCY
01 DM. EMERGENCY WASTE TREATME 04 DESCRIPTION \(\text{\rightarrow} \text{\rightarrow} \)		03 AGENCY
01 D.N. CUTOFF WALLS 04 DESCRIPTION N.A.	02 DATE	03 AGENCY
01 (2) O. EMERGENCY DIKING SURFACE 04 DESCRIPTION // A	WATER DIVERSION 02 DATE	`
01 C P. CUTOFF THENCHESISUMP OF DESCRIPTION	02 DATE	'03 AGENCY
01 C O SUBSURFACE CUTOFF WALL 04 DESCRIPTION NA	02 DATE	03 AGENCY

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

	TIFICATION
O1 STATE	02 SITE NUMBER
WI	0981095920

	PART 10 - PAST RESPONSE ACTIVITIES	WI 1098109592
AST RESPONSE ACTIVITIES (COMMAND		
01 EJ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	O2 DATE	03 AGENCY
NA .	,	
01 # S. CAPPING/COVERING	02 DATE 6/2//98/	03 AGENCY WONR
Seeded.	site and found it to be properly	Closed, Covered, and
01 () T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 [] U. GROUT CURTAIN CONSTRUCTED	02 DATE	03 AGENCY
04 DESCRIPTION NA		
O1 [] V. BOTTOM SEALED	02 DATE	03 AGENCY
04 DESCRIPTION NA		ľ
01 [] W. GAS CONTROL	, 02 DATE	03 AGENCY
04 DESCRIPTION NA		,
01 D X. FIRE CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION NA		
01 () Y. LEACHATE TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION		
O1 [] Z. AREA EVACUATED	02 DATE	03 AGENCY
04 DESCRIPTION // A		-
O1 [] 1. ACCESS TO SITE RESTRICTED	O2 DATE	03 AGENCY
04 DESCRIPTION N/A	•	1
01 E 2. POPULATION RELOCATED	02 DATE	03 AGENCY
04 DESCRIPTION NA	· · ·	
01 () 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
NA	·	
\v \.		
	•	
	•	
	•	

E & E-Chicago, Region I



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 STE NUMBER W.I D981095920

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION # YES

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION.

WONR requested a number of improvements to the landfill in 1971. The regulatory improvements included posting of the license number at the site, controlling rodents and insects, discontinuing the open burning at the site and improving the Compacting of debris and daily cover. These improvements were sotisfactory completed.

WONR recommended that a number of tires which had been deposted at the site to be properly covered. In 1980 WONR requested that the site be completely covered -2 feet of sail and le inches of top Soil, seeded and fenced to limit accessibility. These requirements were needed to be completed before the site could be properly abandoned. These requirements were fulfilled and the site was officially closed on June 2,1981.

BIL SOURCES OF INFORMATION (CO.)

E SE - Chicago, Region I

APPENDIX C

PIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: HALLIE TOWN LANDFILL

PAGE / OF /8

U.S. EPA ID: NID981095920 TDD: F05-8905-015

PAN: FWI 01495A

DATE: 5/23/89

TIME: /008

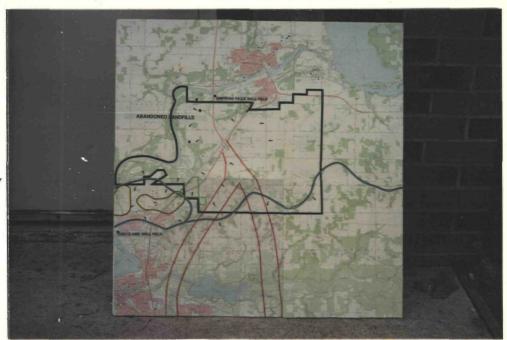
DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
PARTLY CLOUDY

MID 60'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Map of Hallie Township showing the

two abandoned landfills.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: HALLIE TOWN LANDFILL

PAGE 2 OF 18

U.S. EPA ID: NID981095920 TDD: F05-8905-015 PAN: FWI 01495A

DATE: 5/23/89

TIME: /230

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Mostly Sunny

Mid 70'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Entrance and access road to the

land fill.

SITE NAME: HALLIE TOWN LANDFILL

PAGE 3 OF 18

U.S. EPA ID: WID98/095920 TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: /230

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Mostly Sunny

MID 70'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



the entrance gate.

DATE: 5/23/89

TIME: 1230

DIRECTION OF PHOTOGRAPH:

WEATHER
CONDITIONS:
Mostly Sunny

Mid 70's

PHOTOGRAPHED BY:

SAMPLE ID (if applicable):



DESCRIPTION: Western end of the land fill.

SITE NAME: HALLIE TOWN LANDFILL PAGE 4 OF 18

U.S. EPA ID: WID981095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: /230

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Mostly Sunny

Mid 70'5

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable):



DESCRIPTION: Eastern end of land fill.

DATE: 5/23/89

TIME: /230

DIRECTION OF PHOTOGRAPH:

SE

WEATHER CONDITIONS:

Mostly Sunny

Mid 70'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Southeast Corner of landfill.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: HALLIE TOWN LANDFILL

PAGE 5 OF 18

U.S. EPA ID: NID981095920 TDD: F05-8905-015

PAN: FWI 01495A

DATE: 5/23/89

TIME: /235

DIRECTION OF PHOTOGRAPH:

5

WEATHER CONDITIONS:

Mostly Sunny

MID 70'5

PHOTOGRAPHED BY:

SAMPLE ID (if applicable):



DESCRIPTION: Trail entering the site from the south.

SITE NAME: HALLIE TOWN LANDFILL

PAGE 6 OF 18

U.S. EPA ID: WID98/095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: 1435

DIRECTION OF PHOTOGRAPH:

E

CONDITIONS:

Mostly Sunny

Mid 70'S

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



from Shaffer Rd.

DATE: 5/23/89

TIME: 1420

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
Mostly Sunny
Mid 20'S

PHOTOGRAPHED BY: T. NehrKoin

SAMPLE ID (if applicable):



From Shoffer Rd

SITE NAME: HALLIE TOWN LANDFILL PAGE 7 OF 18

U.S. EPA ID: WID98/095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: 1245

DIRECTION OF PHOTOGRAPH:

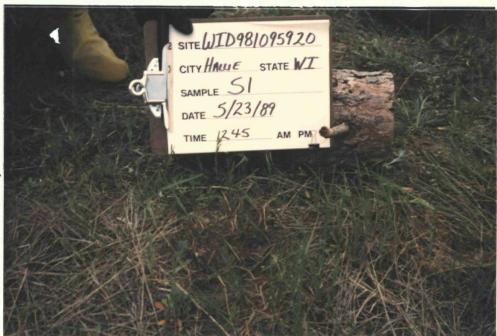
WEATHER CONDITIONS:

Mostly Sunny

MID 70'S

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Close up View of Soil sample SI Collected near an old campfire.

DATE: 5/23/89

TIME: 1245

DIRECTION OF PHOTOGRAPH:

WEATHER

CONDITIONS: Mostly Sunny

Mid 70'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of soil sample 51.

SITE NAME: HALLIE TOWN LANDFILL PAGE 8 OF/8

U.S. EPA ID: WID981095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: /255

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Mostly Sunny

Mid 70'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Close up view of Soil Sample SZ

collected near dirt trail on south side of

DATE: 5/23/89

TIME: /255

DIRECTION OF PHOTOGRAPH:

WEATHER Mostly Sunny

Mid 70'5

PHOTOGRAPHED BY: T NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Perspective View of soil Sample 52

SITE NAME: HALLIE TOWN LANDFILL PAGE 9 OF 18

U.S. EPA ID: WID981095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: 1310

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Mostly Sunny

Mid 70'S

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable):



DESCRIPTION: Close up view of soil sample 53 collected

from an area at the bottom of a gully on the south west corner.

DATE: 5/23/89

TIME: 13/0

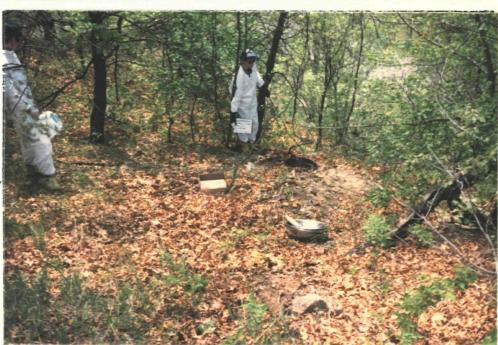
DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: Mostly Sunny

Mid 70's

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of soil sample 53

SITE NAME: HALLIE TOWN LANDFILL PAGE 10 OF 18

U.S. EPA ID: WID981095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: 1320

DIRECTION OF PHOTOGRAPH:

WEATHER

Mostly Sunny

MID 70'5

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable):

DESCRIPTION: Close up view of soil sample s4 collected from an eroded area on the west side of the site.

SITE WID981095920 LE 54

DATE: 5/23/89

TIME: 1320

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: Mostly Sunny

Mid 70'5

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable): **54**



DESCRIPTION: Perspective view of soil sample 54.

SITE NAME: HALLIE TOWN LANDFILL

PAGE // OF 18

U.S. EPA ID: WID981095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: 1350

DIRECTION OF PHOTOGRAPH:

WEATHER
CONDITIONS:
Mostly Sunny

Mid 70's

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): **S5**



at depth along the fence line along the north side of the site.

DATE: 5/23/89

TIME: 1350

DIRECTION OF PHOTOGRAPH:

veather conditions: Mostly Sunny Mid 70's

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of soil sample 55.

SITE NAME: HALLIE TOWN LANDFILL PAGE /2 OF /8

U.S. EPA ID: WID98/095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: 1405

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Mostly Sunny

Mid 70'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Close up view of soil sample se collected

from the south side of the site.

DATE: 5/23/89

TIME: 1405

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Mostly Sunny

Mid 70's

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Perspective View of soil sample s6.

SITE NAME: HALLIE TOWN LANDFILL PAGE 13 OF 18

U.S. EPA ID: WID981095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/23/89

TIME: 1215

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Mostly Sunny

Mid 70's

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable): DATE 5/23/89 TIME /2/5 AM PM

SITE WID981095920

CITY HAWE STATE WI

SAMPLE 57

DESCRIPTION: Close up view of soil sample 57, a

potential background sample collected from a wooded area approximately I mile north of the site

DATE: 5/23/89

TIME: /215

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: Mostly Sunny

Mid 70's

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of soil sample 57.

SITE NAME: HALLIE TOWN LANDFILL PAGE 14 OF 18

U.S. EPA ID: WID981095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/24/89

TIME: //35

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Partly Cloudy

Mid 60'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable):



Non-responsive

DATE: 5/24/89

TIME: //35

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: Partly Cloudy

Mid 60's

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable): RWI



DESCRIPTION: Perspective view of Residential Well Sample

RW.

SITE NAME: HALLIE TOWN LANDFILL

PAGE 15 OF 18

U.S. EPA ID: WID98/095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/24/89

TIME: /045

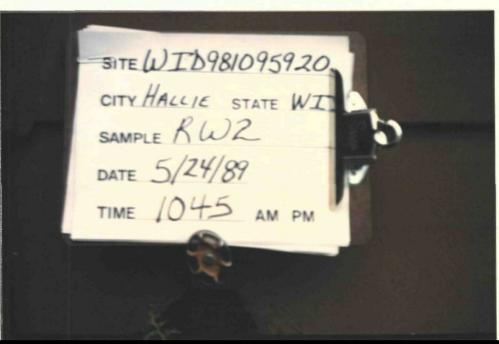
DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: Partly Cloudy

Mid 60's

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable): RWa



Non-responsive

DATE: 5/24/89

TIME: 1045

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: Partly Cloudy

Mid 60'5

PHOTOGRAPHED BY: T. NehrKorn

SAMPLE ID (if applicable): RWa



DESCRIPTION: Perspective view of residential well sample

RW2.

SITE NAME: HALLIE TOWN LANDFILL PAGE 16 OF 18

U.S. EPA ID: WID98/095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/6 / 89

TIME: 1000

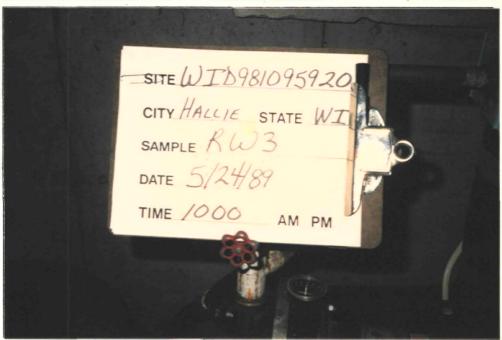
DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: Partly Cloudy

Mid 60'5

PHOTOGRAPHED BY: T. Nehr Korn

SAMPLE ID (if applicable): RW3



Non-responsive

DATE: 5/24/89

TIME: 1000

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Partly Cloudy

Mid 60'5

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable): RW3



DESCRIPTION: Perspective view of residential well sampling

location RW3.

SITE NAME: HALLIE TOWN LANDFILL PAGE 17 OF 18

U.S. EPA ID: WID98/095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 5/24/89

TIME: 1120

DIRECTION OF PHOTOGRAPH:

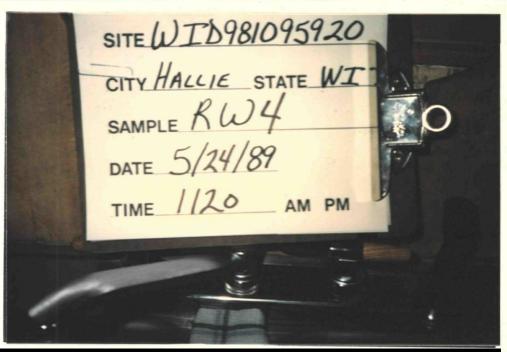
WEATHER CONDITIONS:

Partly Cloudy

Mid 60'5

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable): RW4



Non-responsive

DATE: 5124189

TIME: 1120

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: Partly Cloudy

Mid 60's

PHOTOGRAPHED BY: T. Nehrkorn

SAMPLE ID (if applicable): RW4



DESCRIPTION: Perspective view of residential well sampling

location RW4

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: HALLIE TOWN LANDFILL

PAGE 18 OF 18

U.S. EPA ID: WID98/095920TDD: F05-8905-015 PAN: FWI01495A

DATE: 10/24/89

TIME: 1130

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

Partly Cloudy

Mid 60'S

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): RW5



Non-responsive

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ADDENDUM A

ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program Target Compound List Quantitation Limits

COMPOUND	CAS #	VATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Hethylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5 5 5 5 5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5 5 5 5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	
2-butanone (MEK)	78-93-3	10	10 -
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5 5 5 5 5 5	5 5 5 5 5 5
Trans-1,3-dichloropropene	10061-02-6	5	
Bromofor	75-25-2	5	5
4-Hethyl-2-pentanone	108-10-1	10	10
2-Rexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5 5 5 5	5
Ethyl benzene	100-41-4	5	5 5 5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

			SOIL SEDIHENT
COMPOUND	CAS #	VATER	SLUDGE
henol	108-95-2	10 ug/L	330 ug/Kg
is(2-Chloroethyl) ether	111-44-4	10	330
-Chlorophenol	95-57-8	10	330
,3-Dichlorobenzene	541-73-1	10	330
,4-Dichlorobenzene	106-46-7	10	330
Senzyl Alcohol	100-51-6	10	330
,2-Dichlorobenzene	95-50-1	10	330
-Methylphenol	95-48-7	10	330
ois(2-Chloroisopropyl) ether	108-60-1	10	330
-Methylphenol	106-44-5	10	330
I-Nitroso-di-n-dipropylamine	621-64-7	10	330
lexachloroethane	67-72-1	10	330
litrobenzene	98-95-3	10	330
Sophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
ois(2-Chloroethoxy) methane		10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Maphthalene	91-20-3	10	330
-Chloroaniline	106-47-8	10	330
lexachlorobutadiene	87-68-3	10	300
-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	.330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	· 50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	` 10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

•			SOIL SLUDGE
COMPOUND	CAS #	VATER	SEDIHENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Bexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330-
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10 ·	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00- 2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98 -8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16 .
Endosulfan sulfate	1031-07-8	0.10	16
4.4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	. 0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM TARGET ANALYTE LIST (TAL) INORGANIC DETECTION LIMITS

		Detection Limits				
Compound	Procedure	Water (µg/L)	Soil Sediment Sludge (mg/kg)			
aluminum	ICP	200	40			
antimony	furnace	60	2.4			
arsenic	furnace	10	2			
barium	ICP	200	40			
beryllium	ICP	5	1			
cadmium	ICP	5	1			
calcium	ICP	5,000	1,000			
chromium	ICP	10	2			
cobalt	ICP	50	10			
copper	ICP	25	5			
iron	ICP	100	20			
lead	furnace	5	1			
magnesium	ICP	5,000	1,000			
manganese	ICP	15	· 3			
mercury	cold vapor	0.2	0.008			
nickel	ICP	40	8			
potassium	ICP	5,000	1,000			
selenium	furnace	5	1			
silver	ICP	10	2			
sodium	ICP	5,000	1,000			
thallium	furnace	10	2			
tin	ICP	40	8			
vanadium	ICP	50	10			
zinc	ICP	20	4			
cyanide	color	10	2			

3767:1

ADDENDUH C

SPECIAL ANALYTICAL SERVICES DETECTION LIMITS

Drinking Water Samples

TABLE C
SPECIAL ANALYTICAL SERVICES DRINKING WATER
VOLATILE QUANTITATION LIMITS

DADAMETED	CAS #	DETECTION LIMIT IN REAGENT WATER	
PARAMETER	CN3 #	IN REAGENT WATER	
Benzene	71-43-2	1.5 ug/L	
Bromodichloromethane	75-27-4	1.5	
Bromoform	75-25-2	1.5	
Bromomethane	74-83-9	1.5	
Carbon tetrachloride	56-23-5	1.5	
Chlorobenzene	108-90-7	1.5	
Chloroethane	75-00-3	1.5	
2-Chloroethyl vinyl ether	110-75-8	1.5	
Chloroform	67-66-3	1.5	
Chloromethane	74-87-3	1.5	
Dibromochloromethane	124-48-1	1.5	
1,1-Dichloroethane	75-34-3	1.5	
1,2-Dichloroethane	107-06-2	1.5	
1,1-Dichloroethene	75-35-4	1.5	
Total-1,2-Dichloroethene	540-59-0	1.5	
1,2-Dichloropropane	78-87-5	1.5	
cis-1,3-Dichloropropene	10061-01-5	2	
trans-1,3-Dichlopropropene	10061-02-6	1	
Ethyl benzene	100-41-4	1.5	
Hethylene chloride *	75-09-2	1	
1,1,2,2-Tetrachloroethane	79-34-5	1.5	
Tetrachloroethene	127-18-4	1.5	
Toluene *	108-88-3	1.5	
1,1,1-Trichloroethane	71-55-6	1.5	
1,1,2-Trichloroethane	79-00-5	1.5	
Trichloroethene	79-01-6	1.5	
Vinyl chloride	75-01-4	1.5	
Acrolein	107-02-8	25	
Acetone *	67-64-1	5	
Acrylonitrile	107-13-1	25	
Carbon disulfide	75-15-0	3	
2-Butanone	78-93-3	5	
Vinyl acetate	108-05-4	5	
4-Hethyl-2-pentanone	108-10-1	1.5	
2-Hexanone	519-78-6	5	
Styrene	100-42-5	1	
Xylene (total)	1330-02-7	1.5	

^{*} Common laboratory solvents.

Blank limit is 5x method detection limit.

^() Values in parentheses are estimates. actual values are being determined at this time.

TABLE C (cont.) SAS DRINKING VATER SEMIVOLATILES QUANTITATION LIMITS

D.A.D.A.V.D.COD	010.4	DETECTION
PARAMETER	CAS #	LIHIT
Aniline	62-53-3	1.5 ug/l
Bis(2-chloroethyl)ether	111-44-4	1.5
Phenol	108-95-2	2
2-Chlorophenol	95-57-8	2
1,3-Dichlorobenzene	541-73-1	<u></u>
1,4-Dichlorobenzene	106-46-7	2
1,2-Dichlorobenzene	95-50-1	2.5
Benzyl alcohol	100-51-6	2
Bis(2-chloroisopropyl)ether	39638-32-9	2.5
2-Methylphenol	95-48-7	1
Hexachloroethane	67-72-1	2
n-Nitrosodipropylamine	621-64-7	1.5
Nitrobenzene	98-95-3	2.5
4-Methylphenol	106-44-5	1
Isophorone	78-59-1	2.5
2-Nitrophenol	88-75-5	2
2,4-Dimethylphenol	105-67-9	2
Bis(2-Chloroethcxy)methane	111-91-1	2.5
2,4-Dichlorophenol	120-83-2	2
1,2,4-Trichlorobenzene	120-82-1	2
Naphthalene	91-20-3	2
4-Chloroaniline	106-47-8	2
Hexachlorobutadiene	87-68-3	2.5
Benzoic Acid	65-85-0	20
2-Methylnapthalene	91-57-6	2
4-Chloro-3-methylphenol	59-50-7	1.5
Hexachlorocyclopentadiene	77-47-4	2
2,4,6-Trichlorophenol	88-06-2	1.5
2,4,5-Trichlorophenol	95-95-4	1.5
2-Chloronapthalene	91-58-7	1.5
Acenapthylhene	208-96-8	1.5
Dimethyl phthalate	131-11-3	1.5
2,6-Dinitrotoluene	606-20-2	1
Acenaphthene	83-32-9	1.5
3-Nitroaniline	99-09-2	2.5
Dibenzofuran	132-64-9	1
2,4-Dinitrophenol	51-28-5	(15)
2,4-Dinitrotoluene	121-14-2	i

TABLE C (Cont.) SAS DRINKING WATER SEMIVOLATILE QUANTITATION LIMITS

		DETECTION	,
PARAHETER	CAS #	LINIT	
Fluorene	86-73-7	I ug/L	
4-Nitrophenol	100-02-7	1.5	
4-Chlorophenyl phenyl ether	7005-72-3	1	
Diethyl phthalate	84-66-2	1	
4.6-Dinitro-2-methylphenol	534-52-1	(15)	
1,2-Diphenylhydrazine	122-66-7	1	
n-Nitrosodiphenylamine *	86-30-6		
Diphenylamine *	122-39-4	1.5	
4-Nitroaniline	100-01-6	3	
4-Bromophenyl-phenylether	101-55-3	1.5	•
Hexachlorobenzene	118-74-1	1.5	
Pentachlorophenol	87-86-5	2	
Phenanthrene	85-01-8	ī	
Anthracene	120-12-7	2.5	
di-n-Butyl phthalate	84-74-2	2	
Fluoranthene	206-44-0	1.5	
Pyrene	129-00-0	1.5	
Butyl benzyl phthalate	85-68-7	3.5	
Chrysene **	218-01-9		
Benzo(A)Anthracene **	56-55-3	1.5	
bis(2-ethylhexyl)phthalate	117-81-7	1	
di-n-Octyl phthalate	117-84-0	1.5	
Benzo(b)fluoranthene ***	205-99-2	400	
Benzo(k)fluoranthene ***	207-08-9	1.5	
Benzo(a)pyrene	50-32-8	2	
Indeno(1,2,3-cd)pyrene	193-39-5	3.5	
Dibenzo(a,h)anthracene	53-70-3	2.5	
Benzo(g,h,i)perylene	191-24-2	4	
2-Nitroaniline	88-74-4	1	

^{*} These two parameters are reported as a total.

Note: Limits are for reagent water.

^{**} These two parameters are reported as a total.

^{***} These two parameters are reported as a total.

^() Values in parentheses are estimates.

The actual values are being determined at this time.

TABLE C (Cont.) SAS DRINKING WATER PESTICIDE AND PCB QUANTITATION LIMITS

		DETECTION				
PARAMETER	CAS #	LINIT				
Aldrin	309-00-2	0.005 ug/L				
alpha BHC	319-84-6	0.010				
beta BHC	319-85-7	0.005				
delta BHC .	319-86-8	0.005				
gamma BHC (Lindane)	¹ 58-89-9	0.005				
alpha-Chlordane	.5103-71-9	0.020				
gamma-Chlordane	5103-74-2	0.020				
4,4'-DDD	72-54-8	0.020				
4.4'-DDE	72-55-9	0.005				
4,4'-DDT	50-29-3	0.020				
Dieldrin	60-57-1	0.010				
Endosulfan I	959-98-8	0.010				
Endosulfan II	33213-65-9	0.010				
Endosulfan sulfate	1031-07-8	0.10				
Endrin	72-20-8	0.010				
Endrin Aldehyde	7421-93-4	(0.030)				
Endrin Ketone	53494-70-5	0.030				
Heptachlor	76-44-8	0.030				
Heptachlor Epoxide	1024-57-3	0.005				
4,4'-Methoxychlor	72-43-5	0.020				
Toxaphene	8001-35-2	0.25				
Aroclor-1016	12674-11-2	0.10				
Aroclor-1221	11104-28-2	0.10				
Aroclor-1232	11141-16-5	0.10				
Aroclor-1242	53469-21-9	0.10				
Aroclor-1248	12672-29-6	0.10				
Aroclor-1254	11097-69-1	0.10				
Aroclor-1260	11096-82-5	0.10	•			

^() Values in parentheses are estimates.
Actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE C (Cont.) SAS DRINKING WATER INORGANIC DETECTION LIHITS

		DETECTION
PARAMETER	PROCEDURE	LIHIT
Aluminum	ICP	100
Antimony	GFAA	5
Arsenic	GFAA	5
Barium	ICP	50
Beryllium	. ICP	5
Cadmium	GFAA	0.5
Calcium	ICP	1000
Chromium	ICP	10
Cobalt	ICP	10
Copper	ICP	10
Iron	ICP	100
Lead	GFAA	2
Magnesium	ICP	1000
Hanganese	ICP	10
Hercury	Cold Vapor	0.2
Nickel	ICP	20
Potassium	ICP	2000
Selenium	GFAA	2
Silver	ICP	5
Sodium	ICP	1000
Thallium	GFAA	2
Tin	ICP	40
Vanadium	ICP	10
Zinc	ICP	20
Cyanide	Colorimetric	10

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See inorganic Routine Analytical Services (RAS) for related CAS #.

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

Signature

NOTE:

White Copy — Division's Copy Green Copy — Driller's Copy Yellow Copy — Owner's Copy WELL CONSTRUCTOR'S REPORT Form 3300-15 WOV 1 0 1986 Rev. 2-79

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Business Name and Complete Mailing Address

KOSON WELL DRILLING

NOTE:

White Copy
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Yellow Copy

Division's Copy
Driller's Copy
Owner's Copy

WELL CONSTRUCTOR'S REPORT Form 3300-15

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State of Wisconsin Department of Natural Resources

NOTE:

WELL CONSTRUCTOR'S REPORT

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Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, soals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side. Signature 71

Water sample sent to

EAU

CLAIRE

Business Name and Complete Mailing Address

laboratory on _

1. COUNTY

NOTE:

White Copy Green Copy Yellow Copy Division's Copy
Driller's Copy
Owner's Copy WELL CONSTRUCTOR'S REPORT Form 3300-15 Rev. 2-79

Name

DEC 3 0 1983

CHECK (1) ONE: Chippewa

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<u>Dia. (</u>	m.) M	Ig. oc B	action of	wasaiini	1	From (<u></u>		o (ft.)	+	7	/	•		:						┪	 ,
6			teel ?			Surfa	œ	41			L		٠						<u> </u>			
,	&	Cupj	oled	20 lt	s					1												
	pe	r I 00 J	t. AS	IM A-	120		-\			<i>A</i> -	_								 			
			y Ste	el Pi	ре		$-\Lambda$														ĺ	
			3 ft						-	\neg									 			
	Jo	hns	on Sci	reen	1	4	01	1	+3/2										<u></u>			
								/		1	0.	TYPE O	F DR	RILLIN	IG MA			ED ammer				
9 07			CD CD ATT	NO 1445				₩				⊯ cat	ole To	ool		~ w/	drillin ud & a	g			Jetting	with
o. GK	NO 1 OF		ER SEALI Lind	NG MAI	EKIAI 	From (പ്ര	` T	o (ft.)		•	- Ro	tary-a	bir		R	otary-t	ammer	.			Air
			 -							\exists		•		ng mud w/drilli	no -	&	air		1			Water
		N	ONE -			Surfa	œ					☐ mu	ď		ا		verse	Rotary				
			· 				1				، الم	construc	tion.	Coma!	م اسده	m			11	_4		₁₉ 83
11.	MISCF	LLAN	NEOUS E	ATA						 `	CTI (CALISCI DI	APUII	сопри	CLEU U	" -	:	团	above			
	Yield T		3_		1	irs. at	_10		GP	M W	<u>iell</u> i	is termir	ated		12	in	ches		below	fin	al grad	e
	Depth i	rom su	rface to n	ormal wa	ter leve	el	22		Ft	. w	ell d	lisinfect	ed up	pon cor	npleti	on		#	Yes [□ No	·	
	Depth o	of wate pumpi		22	FL	Stabiliz	ed C	/ _Y	es 🗆	No W	'eli s	ealed w	aterti	ight up	on co	mplet	ion	#	Yes [□ No		
	Water s					Mad:								•	atory	_				-7		1983
Your finish	opinion ing the w	concern rell, am	ning other sount of ex	pollution ement use	hazar d in gr	ds, info outing,	mation blasting	con g, etc	cerning , shouk	difficu d be giv	lties ven (on rever	tered se sid	l, and d le.	lata re	elating	to ne	arby w	elk, scr	eens, ×	als, m	to pom:
Signat	mte	1/3	ri La	11	,			-		1	usin	ess Nam	e and	_					17/	· /.		

Department of Natural Resources
Private Water Supply
Box 7921
Madison Wissonsin 50007

NOTE:

WELL CONSTRUCTOR'S REPORT Form 3300-15 Rev. 2-79

White Copy Green Copy Division's Copy
Driller's Copy

Madison, Wisconsin 53707	Yellow Copy	- Owner's Copy	je -	- 74 TYC 45 G. 7.	
1. COUNTY Chip Down	CHECK (✓) ONE: ☑ Town □ Villa	Nar ege □ City	allie		
	1-res				
	C.I. Other C.I.	Other C.I. Sewer Of		Other C.I	Other
San, Storm C.I. Other Sewer Clearwater	Sewage C.I. Oth Chearwater		olding Sewage Absortank Seepage Pit Seepage Bed	Retei Priue	ure Hopper or ntion or matic Tank
Privy Pet Waste Pit Nonconforming Existing Well Pump Tank		arn Animal Animal Silo utter Barn Pen Pard With	Glass Lined Silo Storage Facility Pit	Earthen Silage	Earthen Manure Basin
Temporary Manure Stack or Platform Manure Tank or Basin Manure Tank or Pipe		Concrete Floor On	ly I	escribe)	
5. Well is intended to supply water for: Mobile Home		9. FORMATIONS Kind		From (ft.)	To (ft.)
6. DRILLHOLE Dia. (in.) From (tt.) To (ft.) Dia. (in.)	From (ft.) To (ft.)	TOPSOIL	,	Surface	1
5 Surface 39		sand : gran	J	1	4
		sand iclay		4	7_
7. CASING, LINER, CURBING AND SCREEN Material, Weight, Specification Dia. (in.) Mfg. & Method of Assembly	From (ft.) To (ft.)	sand are	nel	7	39
5 Stell Tic new but	Surface 30	1 .		_	
15.00 Derft 258 WA					
ASTM A-120 Union					
Steel					
5" By 3' SOHMSON SCREEN	36 39	10. TYPE OF DRILLING	Rotary-hammer	1	
8. GROUT OR OTHER SEALING MATERIA Kind		Cable Tool Rotary-air	w/drilling mud & air Rotary-hammer	ł	ting with
NONE	Surface	Rotary-w/drilling	Reverse Rotary		Water
		Well construction completed	on Mass	2	19 8.3
11. MISCELLANEOUS DATA Yield Test:	Hrs. at _/5 GPM	Well is terminated 12	4 X	above final gr	rade
Depth from surface to normal water lev	17	Well disinfected upon comple	مد	Yes 🗆 No	
Depth of water level / / Ft.		Well sealed watertight upon	completion 💢	Yes 🗀 No	
	anie		y on May	//	19_{{}_{3}}
Your opinion concerning other pollution haza	rds, information concerning diff	iculties encountered, and data given on reverse side.	relating to nearby we	ells, screens, seals,	method of

Signatur

mi A A

Business Name and Complete Mailing Address.

Signature

NOTE:

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WEL	L CON	IST	RUCTOR'S	REP	ORI
•					

Form 3300-15

				· · · · · · · · · · · · · · · · · · ·	1981
1. COUNTY	CHECK (4) ONE:	Nan	Hallie A	ON, VI	` '
(h)ppewa	Section Township Range			5000	
Nor	res			e	
4. Distance in feet from well Building San	itary Bidg. Drain Sanitary	Bldg. Sewer Floor, Dra	Storm B	ldg. Drain St	orm Bldg, Sew
answer in appropriate	ol. Other C.I.	Other C.I. Sewer Ot		Other C.	I. Other
block) VOIN	rain Connected to Sewage Sur	np Clearwater Septic H	olding Sewage Abso	rption Unit Man	ure Hopper or
San. Storm C.I. Other Sewer Clearwater Dr.	Sewage C.I. Oth Sump Clearwater Sump		Seepage Pit Seepage Bed Seepage Tree	Pnue	ntion or ematic Tank
Waste		arn Animal Animal Silo utter Barn Yard With F	Glass Lined Silo W/o Facility Pit		Earthen Manure Basin
Temporary Manure Watertight Liquid Manur Stack or Platform Manure Tank or Pressu				escribe)	
Basin Pipe	Oil Tank (Specify Ty	Concrete Floor and			
5. Well is intended to supply water for:		Partial Concrete War	ills I		
	olex	Kind		From (ft.)	To (ft.)
6. DRILLHOLE Dia. (in.) From (ft.) To (ft.) Dia. (in.)	From (ft.) To (ft.)	Topsoil		Surface	1
6 Surface 107	Tom (tty)	Sand	A Proposition of the Contract	/	6
		Sand agra	del .	6	32
7. CASING, LINER, CURBING AND SCREEN Material, Weight, Specification Dia. (in.) Mfg. & Method of Assembly	From (ft.) To (ft.)	Sand		32	41
6 Steel T&C new blad	KSurface 87		ravel	41	64
19.45# perft. 280	vall	poft Sand	I rock	64	69
ASTM AS3	/	Firm San	I rock	69	107
Sumitors Metal I	nd				
		10. TYPE OF DRILLING N			
2 CROUT OR COURT OF A THE STATE OF A	/	Cable Tool	Rotary-hammer w/drilling mud & air	· ·	ting with
8. GROUT OR OTHER SEALING MATERIAL Kind	From (ft.) To (ft.)	Rotary-air	Rotary-hammer	1	Air
None	Surface	w/drilling mud Rotary-w/drilling mud	Reverse Rotary) Water
		Well construction completed	on 6-1	5	1981
11. MISCELLANEOUS DATA Vield Test:	irs at 25 GPM	Well is terminated	inches \Box	above final g	rade
	77		~	. =	
Depth from surface to normal water level Depth of water level		Well disinfected upon comple		Yes U No	
when pumping 6 Ft.	Stabilized Yes No	Well scaled watertight upon c	ompletion 🔍	Yes No	
Water sample sent to		laborator	·	6	19 8/
Your opinion concerning other pollution hazard finishing the well, amount of cement used in gro	us, miormation concerning diff outing, blasting, etc., should be	given on reverse side.	Terring to nemoy W	, 1129 metrolis, mali	,

Business Name and Complete Mailing Address
K. Olson, Well Drilling

plot

Division's Copy White Copy Green Copy Driller's Copy Yellow Copy Owner's Copy

WELL CONSTRUCTOR'S REPORT Form 3300-15

JUL 14 19p.

 COUNTY CHECK (V) ONE: Name Hallio ☐ Village Town ☐ City Drain Connected To: 4. Distance in feet from well Building Sanitary Bldg. Drain Sanitary Bldg. Sewer Storm Bldg, Drain Storm Bldg, Sewer to nearest: **!Record** C.I. Other C.T. Other C.1. Sewer Other Sewer C.I. answer in appropriate block) Street Sewer Other Sewers | Foundation Drain Connected to: Sewage Sump Clearwater Septic | Tank Holding Sewage Absorption Unit Manure Hopper or Sewage Sump Retention or Pnuematic Tank Seepage Pit Storm C.I. Other San. Sewer Seepage Bed Clearwater Dr. Clearwater Sump 60 Seepage Trench Silo Glass Lined Silo Storage W/o Pit Earthen Silage Earthen Storage Trench Manure Basin Or Pit Pet Waste Pit: Nonconforming Existing Subsurface Pumproom Barn Gutter Animai Animai Yard Barn Pen Well Nonconforming Existing Pump Tank Watertight Liquid Manure Tank or Basin Subsurface Gasoline or Oil Tank Waste Pond or Land Disposal Unit (Specify Type) Temporary Manure Stack or Platform Manure Pressure Pipe Manure Storage Basin Other (Describe) Concrete Floor Only Concrete Floor and Partial Concrete Walls 5. Well is intended to supply water for: 9. FORMATIONS From (ft.) To (ft.) man DRILLHOLE Dia. (in.) From (tt.) | To (ft.) | Dia. (in.) From (ft.) To (ft.) Surface Surface CASING, LINER, CURBING AND SCREEN Material, Weight, Specification To (ft.) Mfg. & Method of Assembly From (ft.) orface 10. TYPE OF DRILLING MACHINE USED NIT Rotary-hammer w/drilling mud & air Cable Tool ☐ Jetting with 8. GROUT OR OTHER SEALING MATERIAL Air Rotary-air w/drilling mud Rotary-hammer Kind From (ft.) To (ft.) Water Rotary-w/drilling Reverse Rotary Surface Well construction completed on MISCELLANEOUS DATA above final grade inches below **GPM** Well is terminated Yield Test: Hrs. at Yes 🔲 No Well disinfected upon completion Depth from surface to normal water level Depth of water level Yes 🔲 No Stabilized X Yes No Well sealed watertight upon completion when pumping won laboratory on Water sample sent to Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of

Signature

finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Business Name and Complete Mailing Address

WELL LOG # 8

State of Wisconsin Department of Natural Resources Box 7921 Madison, Wisconsin 53707

NOTE:

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WELL CONSTRUCTOR'S REPORT Form 3300-15

Yellow Copy Owner's Copy Jallie NOV 20 1970 1. COUNTY CHECK (/) ONE: ☑ Town ☐ City kulud ☐ Village Sanitary Biog. Sev Connected To: to nearest: /Record C.t. Other C.I. Other C.I. Sewer Other Sewer C.I. Other C.I. answer in appropriate Other Sewers | Foundation Drain Connected to: Sewage Sump Street Sewer Clearwater Septic Tank Holding Sewage Absorption Unit Other Sewage Seepage Pites Storm C.L. Other Sewer Sump Seepage Bed Clearwater Dr. Clearwater Seep ge Trench Mar lml Sump Animal Barn Pen Silo w/o Pit Earthen Silage Storage Trench Or Pit Privy Pet Waste Pit Pit: Nonconforming Existing Subsurface Pumproom Barn Gutter Animal Yard Nonconforming Existing Well Pump Tank Waste Pond or Land Disposal Unit (Spedfy Type) Solid Manure Storage Structure Subsurface Gasoline or Oil Tank Other (Give Descri Watertight Liquid Manure Tank Temporary Manure Stack 5. Well is intended to supply water for: 9. FORMATIONS Kind From (ft.) To (ft.) UMAN DRILLHOLE Dia. (in.) From (tt.) To (ft.) Dia. (in.) From (ft.) To (ft.) Surface Surface 7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification
Dia. (in.) & Method of Assembly ro (ft.) From (ft.) Surface 10. TYPE OF DRILLING MACHINE USED 6 Rotary-hammer w/drilling mud & air ☐ Jetting with Cable Tool THER SEALING MATERIAL Rotary-air w/drilling mud Rotary-hammer Air Kind From (ft.) To (ft.) Rotary-w/drilling Reverse Rotary Surface Well construction completed on **MISCELLANEOUS DATA** above final grade below inches **GPM** Well is terminated Yield Test: Yes 🗆 No Depth from surface to normal water level Well disinfected upon completion Depth of water level Yes 🔲 No Stabilized 囟 Yes D No Well sealed watertight upon completion when pumping laboratory on Water sample sent to

Signature Registered Well Driller

finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Complete Mail Address

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of

East Claire Wi